

# A Bibliography of Publications in the *IBM Journal of Research and Development*

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## Title word cross-reference

$(-1, 1)$  [MY65].  $(0, 1)$  [GS72a].  $(b, k)$  [AC84].  $(E, k_x, k_y)$  [ZVW+11].  
 $-\infty < N < +\infty$  [Kog57, Kog58b].  $0.11\mu$  [BDN+02].  $0 < N < 1$  [Kog58a].  $1 - \mu m$  [GSC80, JHH+81]. 14 [FRS+18]. 2 [HS60, MDJ+70]. 22 [FCE+15].  $25^\circ K$  [MDJ+70].  $2^k$  [AEG+02].  $2^{k-1}$  [AEG+02]. 3 [CS03, DWA+08, EFR+05, EK08, HS60, KYY+08, PLS20, RG09, SAT+08, SJMBK08, ZVW+11]. 32 [LBB+13].  $360^\circ$  [RCP+16].  $51/4$  [FMPS93]. + [HC69, Les71].  
<sup>0</sup> [Wei65]. <sup>2</sup> [ABB+08]. <sup>1</sup> [CSH+89]. <sup>1-x</sup> [LMPP69, MB75, Mat70, Vur70]. <sup>12</sup> [MKP73]. <sup>2</sup> [ABK89, BH89, Bra72b, Bru78, CKG+99, CL64, CSE66, CDM89, CFH64, CCD57, CSH+89, DYHS78, EB99, FA70, GSG+90, GBC65, HC70, KG80, KLBP64, KL80, Kus70, MRH89, MJS70, OG80, RF78, SJ70, SARG80, Tu90, Vur70, WB70, YDHS78, ZBL+72, vHv+89]. <sup>2-x</sup> [ACM+89, BEH+89, EHK+89]. <sup>3</sup> [CSE66, CDM89, CCD57, CSH+89, GSG+90, HD69, KBS+99, LD74, Mat70, MKP73, WTP64]. <sup>4</sup> [ACM+89, BEH+89, EHK+89, FA70, Kus70, Vur70, WB70, WTP64]. <sup>5</sup> [BH89, KLBP64, MRH89, MKP73, ZBL+72, vHv+89]. <sup>6</sup> [YAJ90]. <sup>7</sup> [CDM89, CSH+89]. <sup>7-\delta</sup> [BH89, GSG+90, MRH89, vHv+89]. <sup>c</sup> [BCSE89, FNRF89, FL89, HHB+89, KC89, Kat89, Kel89, KIF+89, Meh89, Mor89]. <sup>p</sup> [FL89]. <sup>th</sup> [Fuj92]. <sup>x</sup> [ACM+89, BEH+89, EHK+89, LMPP69, MB75, Mat70, SG77, Vur70]. *A* [LO72]. *b*

[Bos70b].  $\beta$  [Phi78].  $e^N$  [Kog57].  $f_t$  [Phi78].  
 $g$  [SBR64].  $\gamma$  [NBF+00].  
 $i = i_0[\exp \alpha(v - Ri) - 1]$  [Mil67].  $\kappa$  [GNF06].  
 $L$  [AO97, AO01].  $l_p^k$  [CLW79].  $l_q^k$  [CLW79].  
 $M$  [Kog59].  $\mu$  [HWC88, PZK+03, SHWK+90,  
 SWC+95, TMF+95].  $N$  [FRE+08, CDS73,  
 CDS00, FP69, FA70, KO65a, KO65b, MC68,  
 RGL75, Spe69, VCP80, Kog59].  $p$   
 [KO65a, KO65b, KO66, MG63b, MC68,  
 VCP80, Vur70].  $\pi$  [HC69].  $Q$  [SLLP64].  $T_c$   
 [GSG+90].  $\times$  [Sch91, SHDK95].  $z$  [Dan66].

**-adjacent** [AC84, Bos70b]. **-alloy**  
 [TCCH98]. **-based** [CKG+99, YAJ90].  
**-body** [FRE+08]. **-Channel**  
 [RGL75, CDS73, CDS00]. **-D** [ZVW+11].  
**-factor** [SBR64]. **-Film-Based** [Blu79a].  
**-GaAs** [Spe69]. **-GeTe** [CSE66]. **-inch**  
 [FMPS93]. **-n** [KO66, MG63b]. **-nm**  
 [FRS+18, FCE+15, LBB+13]. **-Si** [RF78].  
**-SnTe** [CSE66]. **-stable** [LO72].  
**-supported** [HKvG+11]. **-Switching**  
 [SLLP64]. **-transform** [Dan66]. **-Type**  
 [FP69, FA70, Vur70].

**/Cd** [Vur70]. **/Cr** [Vur70]. **/CuO**  
 [BEH+89]. **/In** [LMPP69]. **/O**  
 [ZBL+72, Bra72b]. **/Sb** [LMPP69]. **/Se**  
 [FA70, Vur70].

**0.1-** [SHWK+90, SWC+95]. **0.12-**  
 [PZK+03]. **0.25-** [HWC88]. **0.5-** [HWC88].  
**0.7-Microsecond** [RRSW61]. **000-Word**  
 [FP57].

**1** [BGK+80, BCK13, Lan96, PV93]. **1.X**  
 [SWC+95]. **1.X-volt** [SWC+95]. **1/N**  
 [BGK+80]. **10.4-in.-diagonal** [KFYU92].  
**10.5-in.-diagonal** [CAW+98]. **100**  
 [ABB+08]. **100-nm** [WNV+02]. **1000**  
 [RS59b]. **1000-Mc** [RS59b]. **1024-byte**  
 [DMR+81]. **10B** [WF83]. **110-Nanosecond**  
 [WWLF67]. **12-ns** [MMR89].  
**120-Nanosecond** [PSS67]. **128Kb**

[CTT91]. **14-nm**  
 [BWB+18, SRH+18, WBS+18]. **144**  
 [ACG+87]. **145** [FN71]. **15-** [Bra72b].  
**157-nm** [BRB+01, Ito01]. **16**  
 [GP06a, OCB+90]. **16-bit** [Cor82]. **16-Mb**  
 [GP06a]. **16-Mbps** [OCB+90]. **17** [DCB77].  
**18** [Sta75]. **19** [Ber76a, Lan96, Wie76]. **193-**  
 [Ito01]. **193-nm** [AWHK97]. **196**  
 [BBC+12b, GMS+12, KWH+12]. **1975**  
 [AAH68, Bar68, Hen68]. **1980** [Wil93]. **1992**  
 [Wil93].

**2** [AFFS98, AF99, AHH+91, BNW99,  
 CAE+76, EKS+04, GYK99, MRG99, Ono93,  
 RT99, Tan08, WRG99]. **2.0** [Oha10].  
**2.5-Micrometer** [Ghe80]. **20** [RHC73].  
**20-MHz** [RHC73]. **2000** [Wil85]. **200Mb**  
 [GLOS92]. **200Mb/s** [GLOS92]. **21st**  
 [TMF+95]. **2400-bit** [GP81]. **2400-bit/s**  
 [GP81]. **248-** [Ito01]. **256K** [TGB+80].  
**256K-bit** [TGB+80]. **25th** [Car81]. **2D**  
 [BHV85, Kri82, Pic87]. **2Dp** [GHP+85].

**3** [DGL+97, PV93]. **3-1** [PV93]. **3.3**  
 [HBB99]. **3.3-V** [HBB99]. **3.6-** [BBH+95].  
**30** [ACG+87]. **3000** [Rut59]. **3000-Mc**  
 [Rut59]. **305** [LH57, LH00]. **3081**  
 [GS82b, PPS82, RSNG82, TS82]. **3090**  
 [AC86, GRSW86, RV89, SSW91, SdS89]. **32**  
 [Gla97]. **32-stage** [Sch91]. **3380** [How84].  
**3420** [ICO71]. **3480** [WCB+86]. **360**  
 [ABB64, ABB00a, BDH+19, BGM+67,  
 Cal70, CMPR64, FL67, Pad81, Sam64].  
**3687** [DSW82]. **370** [ACG+86, Bar78, Chi86,  
 CDG83, Cre81, Gum83, Pad83, Sta90]. **3800**  
 [BS84a, FLS78, FLR77, MTS84, Mil84].  
**3803** [ICO71]. **3803/3420** [ICO71]. **390**  
 [CS99, DGL+97, ECD+99, Gre97, HBL+99,  
 JL99, KBM+99, KLM+91, KL97, Mau97,  
 RHM+99, SSM97, SK99, SCC+97, SY92,  
 SMK+99, TMB+99, Van97, WL97, Web00,  
 YS99]. **3D** [FLCB85, KN91b, Sch96a].

**4** [BHP83, FKOP90]. **4-Mb** [FKOP90].

**4.2K** [EBd<sup>+</sup>86]. **4.5** [TMT<sup>+</sup>20]. **400** [BLM<sup>+</sup>92, Ste01]. **405LP** [NCB03]. **4096-color** [KFYU92]. **41** [Ano97a]. **4250** [GT87]. **44** [Ano00a, Ano00j]. **45** [Ano01a, Ano01o]. **45-nm** [IFB<sup>+</sup>11]. **4765** [ABC<sup>+</sup>12]. **4769** [BCD<sup>+</sup>20]. **4D** [Dic91].

**5.25-** [BBT85]. **50-Megacycle** [WRLA57]. **500** [CP13]. **500-picosecond** [RHC73]. **5000-Circuit** [Dan81].

**60-nsec** [ABPS66]. **6000** [Aus90, CMR<sup>+</sup>90, FAJ<sup>+</sup>94, HM90, Mar90, MHR90, War90, WD94]. **603e** [JO96]. **64-bit** [GHL<sup>+</sup>04]. **64K** [LST80]. **64Kb** [SHDK95]. **65-nm** [BFG<sup>+</sup>06, FAD<sup>+</sup>07]. **670-nm** [KACS95]. **690** [BKRF02]. **6G** [HA71].

**7** [HHM70]. **77K** [Mar64c].

**8-inch** [BBT85]. **80** [AHH<sup>+</sup>91]. **800-Bit-Per-Inch** [BS70]. **805g** [Lan96]. **8B** [WF83]. **8B/10B** [WF83].

**90-nm** [FAD<sup>+</sup>07]. **9000** [ADG<sup>+</sup>92a, Att92, BBMP92, BRB92, CTS<sup>+</sup>92, Cov92, DGG<sup>+</sup>92, GZM92, HOWP92]. **91** [AST67a, AEGP67]. **9121** [CW91, GGRW91, Haj91, NHH91, Sar91b, TSC91].

**A10** [BCJ<sup>+</sup>96]. **ABC** [KL94]. **Aberrations** [Arm65, Bru97]. **ABIC** [CM98, Mar98]. **ablation** [DAB<sup>+</sup>97, SPP97]. **Abort** [Soh76]. **Above** [Sie70]. **Abrasive** [Ros78]. **Abrupt** [CC76a]. **Absorbers** [Key63]. **Absorbing** [PCDW78, Dav69, Her66]. **Absorption** [Bro62, GL62, WB70, BH89, DP68]. **abstract** [Bei92]. **Abstracts** [Ano57a, Ano57b, Ano93a, Luh58a]. **AC** [AS78, HO75b, Lan74, LS78, OPR<sup>+</sup>78, O'H78, RP78, SS78, Won90]. **AC-Coupled** [HO75b]. **academic** [ITS<sup>+</sup>15]. **accelerate** [Oha10]. **Accelerated** [Gil79, ZMM<sup>+</sup>96, CBD<sup>+</sup>09, LSS<sup>+</sup>20, PK18]. **Accelerating** [PMS<sup>+</sup>08, RG09, SMP<sup>+</sup>04]. **acceleration** [CJH<sup>+</sup>15, CNL<sup>+</sup>19, EGN<sup>+</sup>19, Gsc16, KKS02, KMA<sup>+</sup>20, NFS<sup>+</sup>17, PLK09, SKS<sup>+</sup>20, SSI<sup>+</sup>18]. **Accelerator** [SBJS15, CCF<sup>+</sup>10, GKT17, JAC<sup>+</sup>19, SKP<sup>+</sup>15]. **accelerators** [AKG<sup>+</sup>19, BAB<sup>+</sup>13, EWT<sup>+</sup>07, Gsc09, PBK<sup>+</sup>09]. **Accelerometer** [Lew80]. **Accelerometry** [HL77]. **acceptance** [Lie20]. **Acceptor** [Sou64]. **Acceptors** [FPS66, PF66, Tit63]. **Access** [ABE<sup>+</sup>02, Ano66j, Bla65, CERS76, FC79, GLP76, Her65, Hoa61, LH57, LST80, LN79, ND57, Pet57, Ris84, SS76, Str83, WT77, BMS<sup>+</sup>17, CDD<sup>+</sup>10, CTT91, Co090, DMR<sup>+</sup>81, FR01, Hat72, Hoa00, LKY80, MDB<sup>+</sup>02, MBC<sup>+</sup>96, ND00, RBB<sup>+</sup>08, ND00, LH00]. **access-time** [Coo90]. **Accessibility** [KMH82]. **Accessing** [CM80]. **Accommodation** [BS85]. **accomplishments** [SCM<sup>+</sup>82]. **accountability** [AAJ14, DYK10].

**Accounting** [Dui59, LH57, LH00, ND57, ND00]. **Accumulating** [Kuh88]. **Accumulation** [LMD70]. **Accuracy** [RK74, Sit87]. **accurate** [LO72]. **Accurately** [BD96, Cli90, SW90]. **Acetylene** [Dem78, GMP90]. **achieved** [HRF<sup>+</sup>17]. **achieving** [BWT<sup>+</sup>14]. **Acid** [BBD63, HHA93]. **Acknowledgment** [RS79]. **ACORN** [HY84]. **Acoustic** [MN67a, MM64, MW70, PAZ72, PK61, Tie61, HKA<sup>+</sup>13, Tur69]. **Acoustic-Mode** [PK61, Tie61]. **Acoustical** [PH65]. **Acoustoelectric** [MSW69, RK69, Spe69, ZZ69, Bra69, Lew73]. **ACP** [AGAP63, CP63, MT64]. **Acquisition** [DGB78, BKM<sup>+</sup>69, CCFSZ12, Kon69, Nic92, Rei69, SG71, WN92, CMP87]. **across** [HRF<sup>+</sup>17]. **Acting** [SWD74]. **Action** [DC73b, AWK20, TMW<sup>+</sup>17]. **Activated** [PRY65, SST69]. **Activation** [SD71, RC17]. **Active** [Dod63, HJ88, Har65, Hud63, LCL<sup>+</sup>98,

MWN63, WWA<sup>+98</sup>, AIH<sup>+98</sup>, BAB<sup>+13</sup>, BCKK92, CAW<sup>+98</sup>, MC09, NAB<sup>+15</sup>].

**Active-matrix**

[LCL<sup>+98</sup>, AIH<sup>+98</sup>, CAW<sup>+98</sup>]. **activities**

[APRS16, SSK<sup>+16</sup>]. **Activity**

[RCH<sup>+86</sup>, LRNS17]. **Actual** [MW79].

**actually** [Per04]. **actuation** [RBB<sup>+11</sup>].

**Actuator**

[Hea76, MJ64, BM68, FMPS93, ZH89].

**Adapter**

[HTH<sup>+09</sup>, ZST<sup>+07</sup>, BAB<sup>+18</sup>, OCB<sup>+90</sup>].

**adapters** [HSL<sup>+05</sup>, SAB<sup>+07</sup>]. **Adapting**

[Os93, DBC<sup>+06</sup>]. **adaption** [MWL<sup>+14</sup>].

**Adaptive** [EÖH10, FWR<sup>+11</sup>, FB78, HW81,

O'M85, Pat85, ATL<sup>+88</sup>, BS06, BSHM01,

CLP<sup>+13a</sup>, LQRS04, Nob95a, ODL<sup>+09</sup>,

PMLA88, Sho04, Ung72, HJK<sup>+01</sup>]. **add**

[AEG<sup>+02</sup>]. **Addendum**

[Ano66k, MHI98, SW98]. **Adder**

[HA58, Pet58, LKY80, Lin81, Wei91].

**Adders** [LT70, Wei79]. **Addition**

[Rut57, Hor98]. **additives** [VBDA05].

**Address** [BCH84, Fra83, HP63, SR63].

**Address-Independent** [Fra83].

**Addressable** [MLGD84, WW71].

**Addresses** [FT80]. **Addressing**

[FC63, Pet57, SAA<sup>+18</sup>, APOI92, van73b].

**Adequate** [Sop59]. **Adhesion**

[Bro94, EC71, Mit94, CF72, Dür94, EM94,

RKL88b, SRD94, Spo94, Tho94, LV94].

**adhesive** [KS01]. **Adjacent**

[Bos70a, AC84, Bos70b]. **adjustment**

[Kar73]. **Admittance** [Hud63]. **adoption**

[GWB<sup>+17</sup>, RM09]. **adsorbed** [MHW95].

**Adsorption** [Bru78, SSFF11]. **Advanced**

[AAB<sup>+05</sup>, ATW97, BAH82, DMG<sup>+17</sup>,

ESS<sup>+20</sup>, GBS<sup>+87</sup>, GNF06, HWC88,

HKR<sup>+97</sup>, KMO<sup>+14</sup>, KGCS85, SRO93,

SSN<sup>+15</sup>, TAE<sup>+07</sup>, GBB<sup>+05a</sup>, HRC<sup>+08</sup>,

KPT<sup>+02</sup>, KRT98, LLF<sup>+92</sup>, MAG<sup>+01</sup>, OS99,

Sou96]. **advancements**

[ABB<sup>+12a</sup>, ABG<sup>+09</sup>]. **Advances** [Ano19g,

BGL07, CCC<sup>+15</sup>, RQBW08, STCR84, Tis90,

DM01, KFSZ92, KAB<sup>+12</sup>, SP17].

**Advancing**

[BAB<sup>+18</sup>, BGL<sup>+92</sup>, CAK<sup>+15</sup>, PCW<sup>+17</sup>].

**advantage** [HST06]. **adversarial**

[SHCV19]. **adverse** [SLZL18].

**advertisement** [RAMD19]. **Aerial**

[BDS<sup>+97</sup>]. **Aerodynamic** [Len74].

**Aerosols** [HC78]. **Affecting** [GOJN77].

**AFM** [VDD<sup>+00</sup>]. **Africa** [ZW17]. **after**

[Lan66]. **Ag** [Vur70]. **Ag-Pd** [Kah71].

**against** [Cop94]. **age** [SN15, Tal20]. **agent**

[BW16, GB93]. **agent-based** [BW16].

**agents** [Hor98, NBM<sup>+19</sup>]. **Aggregating**

[Oha10]. **Aggregation**

[BBG60, Cla03, KOP14]. **Agile**

[EMM<sup>+18</sup>, WBT<sup>+10</sup>, AAB<sup>+14</sup>, GMR10].

**agility** [OEN<sup>+16</sup>]. **Aging** [Gil79, CHH<sup>+01</sup>].

**AHAFS** [JDBP10]. **Ahead** [LT70]. **AI**

[Ano19h, Ano19j, ABH<sup>+19</sup>, BBMR19,

BDH<sup>+19</sup>, CNL<sup>+19</sup>, IJV19, NBM<sup>+19</sup>, SR19,

WSJ<sup>+19</sup>]. **Aid** [KC66a, DH69]. **Aided**

[KO70, Rue79, SLG78, Dec90, FPST14,

FCH70, Ho73, KLRS96, Sch96a]. **aiding**

[DRSM15]. **Aids** [HS81b]. **AIM** [KJS09].

**AIM-HI** [KJS09]. **AIMS** [BDS<sup>+97</sup>]. **Air**

[BMC86, FL74, FK62, Ku63, MW62,

NHH91, PH79, SHC<sup>+72</sup>, CXZ<sup>+17</sup>, Coo90,

Fro71, GGRW91, Haj91, KLM<sup>+91</sup>, PH81].

**Air-Bearing** [FL74, Coo90]. **Air-Cooled**

[NHH91, GGRW91, Haj91, KLM<sup>+91</sup>].

**Airborne** [Ben59, AKKJ72, NT72]. **airline**

[LB07]. **AIX** [Aus90, CMR<sup>+90</sup>, Hei94]. **Al**

[Dou62, BdM<sup>+78</sup>, CSE66, CFH64, HRS<sup>+95</sup>,

TCCH98]. **Al-Al** [CSE66]. **Al-alloy**

[HRS<sup>+95</sup>]. **Al-Cu** [BdM<sup>+78</sup>]. **ALDC**

[SK98]. **Alfvén** [WS64]. **AlGaAs**

[HVK<sup>+90</sup>]. **Algebra**

[Mar64a, AGZ94c, Gus97, Gus03].

**Algebraic** [Pip81, RW59]. **Algebraically**

[Str68]. **Algorithm** [Ahu79, Bea74, CMP87,

Cve87a, Don69, Hai85, Jel69, Lew83, Luk74,

MFT77, O'M85, SN87, Tod78a, Tom67,

AGZ94b, AGJA06, Bar82, BP74, CDC96,

CFP20, Cra98, DF15, Dan82, DFNNS17,

DBNK<sup>+17</sup>, FW83, Gus76a, Gus76b,

HRWZ87, HT69, JMLW94, KdAC<sup>+15</sup>, NFS<sup>+17</sup>, Nob95a, Ray69, Sav90, Tue68].

**Algorithmic**

[Cha77, AGZ94c, BDH<sup>+19</sup>, Cra98, RDL19].

**Algorithms**

[AMG<sup>+87</sup>, AFCB94, DKN87, Far87, FLW78, FHPR01, KR87, KM77, RK75, Ver80, Wit85, AGZ94a, AGZ94c, BK74, Bra94, DH03, GS72b, GS72a, Gup97, Gus97, Gus03, KB74, LQRS04, RS94, SG94b, TR77].

**Aliasing**

[DWW90]. **Aligned** [TDM<sup>+87</sup>]. **Alignment**

[BCH84, And10, LCL<sup>+98</sup>]. **Alkaline**

[WA79]. **Alkane** [VM79]. **all-reduce**

[CFS<sup>+19</sup>]. **all-sky** [SJZ<sup>+15</sup>]. **Allocation**

[CFL73, van72, van73a, ADG<sup>+05</sup>, BCE<sup>+07</sup>, DHMP94, GHH<sup>+17</sup>, GSAB93, KdAC<sup>+15</sup>, vdP72, Yan07, van73b]. **Alloy**

[BdM<sup>+78</sup>, Fie65, GL62, NM65, RL70, VGC79, AT00, BKM80a, BJMO80, HRS<sup>+95</sup>, LMPP69, TCCH98]. **alloyed** [SD71]. **Alloys**

[BS64, CJT62, Col62, HBL62, HK64, HB74, How82, Jon60, KS66, LR65a, Lud78]. **AIN**

[RHC73]. **Alone** [Don80]. **along** [LT95].

**Alpha** [HRC<sup>+08</sup>, GRH<sup>+08</sup>]. **alpha-particle**

[GRH<sup>+08</sup>]. **Alpha-particle-induced**

[HRC<sup>+08</sup>]. **altered** [Irv89]. **alternate**

[VWE02]. **alternating** [Wid67].

**Alternative** [AKNR10]. **alumina**

[KLM<sup>+91</sup>]. **aluminium** [SD71]. **Aluminum**

[ADH70, AIH<sup>+98</sup>, DYHS78, Jon70, YDHS78, AdH00b, Lar80, SL66]. **Aluminum-based**

[AIH<sup>+98</sup>]. **Aluminum-Implanted**

[DYHS78, YDHS78]. **ALUs** [PV93, Sch80].

**always** [SIKdL16]. **always-on** [SIKdL16].

**Ambient** [BMC86, Leh64, RC09]. **Amdahl**

[CPD<sup>+09</sup>]. **Amendment** [Ku63]. **Amino**

[BBD63]. **Among**

[DG84, Vil82, DSS<sup>+92</sup>, YCJ<sup>+17</sup>].

**Amorphous** [BK76, CCG73, CH76, Fri69,

OHSP76, Sch75, VGC79, KOT99]. **amounts**

[BBC<sup>+08</sup>]. **Amplification**

[Bre60, Pri65, RK69, Smi57, ZZ69, Ito97,

Ito00, Lan60, Tur69]. **amplified**

[HHSW01, Ito01]. **Amplifier** [Gra80, TC63].

**amplifiers** [JGD<sup>+08</sup>]. **amplitude** [BS71a].

**AMR** [Ibe03, ILH03]. **Analog**

[ARV64, Wal58, CNL<sup>+19</sup>, HNS<sup>+03</sup>, HB73].

**Analog-to-Digital** [Wal58]. **Analogon**

[BDH83]. **analyses**

[BBMP92, Gro59, PMS<sup>+17</sup>]. **Analysis**

[AW82, AKB<sup>+17</sup>, AH79, AGAP63, BBC<sup>+09</sup>,

Bos97, BK61, BCGS81, Cal81, Cas60,

CFL73, CHW75a, CHW75b, Cha62, Cha74,

Cha75b, CW85, Chi86, CDW75, CW77,

CMS85, CPL<sup>+74</sup>, Cve87a, FE75, Gar57,

Gar64, Gau77a, GLS74, GLP76, GS87,

GA84, GL87, Gru79, Gus76a, Gus76b,

HS81a, HP66, HW81, HS61, HSC82, Ho66,

HS82, HO75b, HS71, How84, Hua79, Ken61a,

KO65a, KO69b, KO70, KGT88, Kur87,

KM74, Laf80, Lan74, Lee77b, LS76b, Man85,

Mat85, McA83, MW79, NB61b, Ohb84,

PL83, PH65, Pim76, RP70, Rue79, SC75,

SFD77, Sop59, SM66, Sta87, SM63, SG64,

Tak87, Tan74, TKG89, Thu60, Tit61, TAR84,

VSF65, Wat60a, Wee79, WCW82, WC75,

WA79, Yas85, Zar57, AAA<sup>+17</sup>, ABM88,

Bal91, BFRT13, Bir01, BGL66, BBS<sup>+03</sup>,

Bro72, Bur72, BCGS00, CGM<sup>+15b</sup>].

**analysis** [Cha73a, CGLL93, Cop00a, Cor93,

Dan66, DBB<sup>+02</sup>, Dic91, ESA02, ESS<sup>+20</sup>,

Fer70, GMNE63, Gre60, HMOS81, HMO81,

HKA<sup>+13</sup>, HRF<sup>+17</sup>, Ho73, KFB<sup>+97</sup>, KM68,

KWT<sup>+11</sup>, KBF<sup>+92</sup>, KS01, LPM<sup>+12</sup>, LFF90,

LSW13, LD72, Lom77, MYKK<sup>+17</sup>, MHI01,

Mat03, MWX<sup>+17</sup>, MDMN10, Mon82b,

MNWH20, MFL<sup>+12</sup>, NML<sup>+20</sup>, Okt71,

PSP06, PAZ72, Pig88, Sch96a, Sed67,

SBG<sup>+71</sup>, SLZL18, SSB<sup>+12</sup>, Sta75, TWX<sup>+10</sup>,

TKV00, TTI98, Tue76, VPD88, WLH<sup>+17</sup>,

WTT<sup>+14</sup>, WC69, YBF<sup>+14</sup>, You90, ZBL<sup>+72</sup>].

**analytic** [Bar78, Mat03]. **Analytical** [LD72,

MHI01, SLHM67, Tro00b, VMS<sup>+14</sup>, Bat00].

**Analytcs** [AGH<sup>+16</sup>, BR17, EDGL<sup>+13</sup>,

KAF<sup>+16</sup>, AHN<sup>+03</sup>, ADF12, BCC<sup>+12</sup>,

BSY<sup>+15</sup>, BGL07, BEJ<sup>+14</sup>, CDL<sup>+14</sup>,

CJH<sup>+15</sup>, CHM<sup>+16</sup>, CP13, DB20, DGH<sup>+14</sup>,

DJL<sup>+16</sup>, DNZ<sup>+19</sup>, GGK<sup>+13</sup>, GWB<sup>+17</sup>,

GSC12, GAJ<sup>+16</sup>, HZG<sup>+16</sup>, KBJ<sup>+18</sup>, Kan15, KRTN<sup>+12</sup>, LPA<sup>+15</sup>, MHR<sup>+15</sup>, Pon17, RRMD17, RCP15, SJW<sup>+16</sup>, SKP<sup>+15</sup>, Sim19, Sof13, SS15, SMX<sup>+14</sup>, SIKdL16, WSJ<sup>+19</sup>, Yar12, ZSY<sup>+13</sup>, BBE<sup>+13</sup>]. **analytics-based** [KRTN<sup>+12</sup>]. **analyze** [SSK<sup>+16</sup>]. **analyzer** [Ano71, MMUS88]. **analyzers** [DWW90]. **Analyzing** [HAG<sup>+13</sup>, KSH<sup>+08</sup>]. **anchored** [NNGV19]. **anchors** [BCC<sup>+19</sup>]. **Andreev** [vHv<sup>+89</sup>]. **Andrew** [RBB<sup>+11</sup>]. **Android** [SBG<sup>+13</sup>]. **Anelastic** [NB61a, NB61b]. **Angle** [CSS83, Lan63, PBF60, PW68]. **Angle-of-Incidence** [PBF60]. **Angular** [Hun59, Sun06]. **Animation** [BS91, FLCB85, WNBP91]. **Anisotropic** [Pri60, NSOO98, PM72]. **anisotropies** [Yan71]. **Anisotropy** [Boy60, OHSP76, PBF60, You90]. **Annealing** [Blu79a, CCP85, CFH64, DKN87, GC68]. **annihilation** [Pet89]. **Anniversary** [Car81]. **Anodic** [Dat93]. **anodization** [Hes99]. **Anodized** [PCDW78]. **anomalies** [LSW13]. **Anomalous** [AC63, CP86, LeB62]. **Anonymizing** [GDLS14]. **ANSI** [NFI<sup>+08</sup>]. **answer** [TOKN18]. **Answering** [Pla76, BCD<sup>+17</sup>]. **answers** [Fre04, GLK<sup>+12</sup>, MKW<sup>+12</sup>]. **antenna** [LGF<sup>+03</sup>]. **antennas** [DHK00]. **anticipator** [HM90]. **Anticoincidence** [Spr63]. **Antimony** [DV64, HK64]. **antispam** [WZC<sup>+10</sup>]. **any** [DDMS92]. **Aperture** [van77, SRCW97]. **API** [WML<sup>+16</sup>]. **APIs** [WML<sup>+16</sup>]. **APL** [AT78, Chi86, CJ91, DO86, FI73, Lat73, Ort84, Sur69]. **APL/370** [Chi86]. **APL2** [Alf89, Bro85]. **APLGOL** [Kel73]. **Apparatus** [BP75, Tay57]. **appliance** [VCM<sup>+20</sup>]. **appliances** [JWZ<sup>+09</sup>]. **Application** [Ast67b, Bar75, BMC86, BMD<sup>+20</sup>, BSJ<sup>+13</sup>, BKU88, BHWW77, CM80, CD85, DC82, Dou62, FLCB85, GA68, GHK67, HP63, HJ88, HKM<sup>+86</sup>, How82, KT70, Kob71, KM70, KM00, KT84, Kov59, KBF<sup>+92</sup>, LS76a, Le 62, LMT84, MW80a, Mar64b, MS67, MS87, Moi91, MPD86, PBC<sup>+06</sup>, Pip79, PZK<sup>+03</sup>, Rot66b, SM78, SLG78, SF93, Tro80, TTI98, AKKJ72, AAB<sup>+10</sup>, ABM<sup>+01</sup>, BBPS91, BDS<sup>+97</sup>, CP72, CLP<sup>+13b</sup>, CPT<sup>+08</sup>, CN94, EMM<sup>+18</sup>, EPP10, FKL<sup>+08</sup>, GI88, HBB99, LFR05, LR79, LS72, LSS<sup>+20</sup>, MLWC20, MDJV08, MC87, Mon82b, NCB03, RRMD17, RR69, SBG<sup>+13</sup>, SHC<sup>+72</sup>, SCW10, TCCH98, BLM<sup>+92</sup>, MY65, MM75b]. **Application-focused** [BMD<sup>+20</sup>]. **Application-level** [BSJ<sup>+13</sup>]. **Application-Specific** [HKM<sup>+86</sup>]. **Applications** [ABC<sup>+85</sup>, Aic84, BV78, BAH82, CA84, CH84, Com83, Cro79, Dat98a, Hau96, HF78, Hop61, Kau81, NB61b, OO81, Sch75, SCYK78, WKB<sup>+86</sup>, WR83, ZG65, vv86b, vAR82, AW82, ABB<sup>+13</sup>, ABB<sup>+03</sup>, ARM<sup>+01</sup>, AKG<sup>+19</sup>, ACM01, ATW<sup>+08</sup>, BCC<sup>+16</sup>, BBH82, CS84, CCG73, CN18, CLIJ<sup>+10</sup>, CBBS90, CKL<sup>+13</sup>, CJK<sup>+13</sup>, CRM02, DT08, EWS<sup>+13</sup>, GR92, GBBM90, GSC12, HVK<sup>+90</sup>, HHR99, IFB<sup>+11</sup>, KM93, KFH<sup>+06</sup>, KLS<sup>+05</sup>, KKT<sup>+95</sup>, LPA<sup>+15</sup>, MCAW95, MN97, Mos61, Oha10, Osb93, RFC<sup>+07</sup>, SBG<sup>+13</sup>, Sch96b, SWC<sup>+95</sup>, SPR<sup>+95</sup>, SFH<sup>+16</sup>, SR19, SHDK95, TWX<sup>+10</sup>, TFL<sup>+98</sup>, WYF<sup>+03</sup>, WSJ<sup>+19</sup>, WYS92, YAH<sup>+96</sup>, ZSY<sup>+13</sup>, ŽFE06]. **Applied** [Coh87, EHHP67, Jur78, Nor58, PW67, SH57a, Sar91b]. **Applying** [CPD<sup>+09</sup>, EG00, GCFW07, OTC14]. **Approach** [BBC<sup>+64</sup>, BF77, CAE<sup>+76</sup>, CHS82, Gor65, HJ88, Ho75a, KMO64, Len58, RS85, ABG<sup>+95</sup>, AYA14, AR87, BKN10, BMS<sup>+17</sup>, BTWY92, BL15, CHG04, CCE<sup>+20</sup>, DEG<sup>+01</sup>, Fer70, HCO74, KRTN<sup>+12</sup>, Koe18, KSSC<sup>+13</sup>, KRS<sup>+17</sup>, Luh57, NML<sup>+20</sup>, NMV<sup>+09</sup>, PL20, RCP15, Rub90, SKSP06, SJZ<sup>+15</sup>, TWM<sup>+14</sup>, VJA07, VPV<sup>+19</sup>, VNT16]. **approaches** [DJK14, Fra89, MBB<sup>+01</sup>, SNP06, TSC91]. **approximants** [Ris72]. **Approximate** [CPvR00, CHW75a, NG17, SC75, Sau81,

Sch62b, Di 88, HSL<sup>+</sup>10, Lei61].  
**Approximating** [And73, Kep75, Mir69].  
**Approximation** [RK74, AGJA06, MM94, Riv87, Sit87, Wee72]. **AQL** [ADST78a, ADST78b]. **Aqueous** [CHBH85, LG88]. **Arabic** [AFCB94].  
**arbitrary** [MY65]. **architected** [KMA<sup>+</sup>20].  
**Architectural** [BS95, Sou96, BS06, KL70b].  
**Architecture** [ABC<sup>+</sup>99b, AK82, ABB64, ABB00a, BLM<sup>+</sup>92, BBH<sup>+</sup>81, CdLS92, Com83, CDG83, Cve87a, DLW86, ES92, FGM<sup>+</sup>83, Gum83, Gyg08, HF94, JB07, LSZ<sup>+</sup>10, MMR89, Ono93, Pad83, SW83, Tay84, UMK<sup>+</sup>85, VDG19, WF87, Wri83, YS99, ARG00, BDN<sup>+</sup>02, CNV<sup>+</sup>15, CGM<sup>+</sup>15b, CPT<sup>+</sup>08, CBD<sup>+</sup>09, EBD<sup>+</sup>95, FPST14, FXB<sup>+</sup>10, GBC<sup>+</sup>05, Gsc16, HHH86, JS14, KdAC<sup>+</sup>15, LNT08, MSB<sup>+</sup>04, MME<sup>+</sup>97, NAB<sup>+</sup>15, OG90, PVDF95, RD12, RBL<sup>+</sup>09, SHL07, VTC09, CRDI07, HFH94, HJK<sup>+</sup>01, IMSV10, JMP96, PERW02, SY92].  
**Architecture/390** [SY92]. **Architectures** [BGLM09, FH84, BGS13, BIK<sup>+</sup>05, CCF<sup>+</sup>10, Cla03, Nai02, OTC14, SDS<sup>+</sup>18]. **Archive** [BBC<sup>+</sup>08]. **archives** [CBK<sup>+</sup>98, ZW17].  
**Arcing** [HMR82]. **arcs** [Hof60]. **Arcsin** [Kog58a]. **Arctan** [Kog58b]. **Area** [DO74, FHL<sup>+</sup>82, Gau77b, HS85, HS81a, CH06, HMK01, MNWH20, OCB<sup>+</sup>90, ST89, Sta89b, Sta89c]. **areal** [ABB<sup>+</sup>08]. **Argon** [SJ70]. **Argonne** [CKL<sup>+</sup>13]. **arise** [Rus04].  
**Arising** [Sch63, BK61]. **Arithmetic** [MLT83, Mur57, RL79, Tom67, WRLA57, ABC<sup>+</sup>99b, Lan84a, Lan84b, MP88a, PMLA88, Ris76, TLM83, Wai05, WET<sup>+</sup>10].  
**Arm** [Hea76]. **ARMA** [HA00]. **armed** [BBMR19]. **Aromatic** [BMW83, Cas71].  
**Array** [AKK<sup>+</sup>67, CL74, Dan81, FHL<sup>+</sup>82, GLL80, JT66, Jon75, MW79, PSS67, RT75, SW98, VPS88, Wei79, Woo75, BGL<sup>+</sup>92, CRM02, FM75, Fre96, HL72, MLMP<sup>+</sup>12, MKJM93, SST<sup>+</sup>98, TSC91]. **Arrays** [EL80, LBH<sup>+</sup>75, MW70, Ort84, Raa76, FJSS89, GM73, HDBR08, HL72, JPTW92, KOT99, Mar71, Mor73, PC07, Spr71, WW71, Won90]. **Arsenic** [BA62, DJ70, JD67, SR71, CG71, GOVC71].  
**Arsenic-Doped** [BA62]. **Arsenide** [And60, vM66]. **Art** [CH84, BGL<sup>+</sup>92, MM91]. **Arthur** [WM92].  
**Artificial** [Dav58, Gri92, CM19, DNZ<sup>+</sup>19, MLM<sup>+</sup>19].  
**AS/400** [Ste01, BLM<sup>+</sup>92]. **ASIC** [BDN<sup>+</sup>02, BTP<sup>+</sup>90, BPS<sup>+</sup>96, BL98, DL02, EGH<sup>+</sup>96, HO96, IFB<sup>+</sup>11, PBK96].  
**ASIC/SoC** [DL02]. **ASICs** [BBD<sup>+</sup>02, GGKK96, SGS<sup>+</sup>96, SKB<sup>+</sup>96].  
**ASLT** [LV67, Llo67, SST67]. **Aspects** [Ame80, Ano59n, BBMP92, CK79, GFHW82, HHJW84, HO75b, Kol67, Len74, PPS82, SB64, Wat60b, Yas87, HMOS81, HHSW01].  
**assembled** [GSAB93, Man90]. **assemblies** [CGLL93, GLCW93]. **Assembly** [Doo83, LW77, RBC78, WLPL<sup>+</sup>80, BRB<sup>+</sup>07, ESA02, SCH<sup>+</sup>09]. **Assessing** [Mar12].  
**assessment** [BISN<sup>+</sup>12, BJ06a, HE10, PAH<sup>+</sup>18].  
**assessments** [KVP<sup>+</sup>20]. **Asset** [GAJ<sup>+</sup>16, HZG<sup>+</sup>16, PTRC16]. **Assigned** [Ano66n, Ano66m, Ano66o, Ano66p, Ano66q, Ano66r]. **Assignment** [Bea74, Don69, NRA<sup>+</sup>07]. **Assignments** [MT77]. **Assistance** [FZ88]. **assisted** [CNS<sup>+</sup>99, GM69, GMP90, Hes99, JKG69].  
**assists** [ZDB<sup>+</sup>18]. **Associative** [Gab69, JM64, KPST61, MP61].  
**assumptions** [BJW72]. **assurance** [MCH<sup>+</sup>82]. **Asymmetric** [IMC<sup>+</sup>10, KLHW16]. **Asymptotic** [Lew73].  
**asynchronous** [HAMC<sup>+</sup>04]. **ATM** [Gla97].  
**atmosphere** [QS67]. **atmospheric** [Shi72].  
**Atom** [Gom86, KO65a, KM66, FRE<sup>+</sup>08, KMK68, KO69a]. **Atomic** [Bat00, BBS78, Cle65b, Dür94, Fin86, Hun59, LFC95, Mic78, Pan78, Agn02, Sto91].  
**atomic-level** [Agn02]. **Atomic-scale** [Dür94]. **Atoms** [Cle65a, Lan86, Cle00, MHW95]. **Attached**

[Cro79, DK79, ODA<sup>+</sup>08]. **Attachment** [RBWH93, CMW92, NSOO98]. **Attack** [KS66, ASR07]. **attacks** [Cop94]. **attaining** [MDR<sup>+</sup>07]. **Attenuation** [Dav79, DSSS64, EGS60, Mor62, PL81, Swa59, SS59b, Far82, Lew73]. **Attitude** [CI76, GHK67]. **Attraction** [PH81]. **attribute** [Arb86]. **attributes** [GA68, PERW02]. **attrition** [Coo18]. **Audio** [WLKS98]. **Auditory** [Dav58]. **Auger** [CW78]. **Augmented** [GFS71, GSAP17]. **Augmenting** [AAJ14]. **AuIn** [KL80]. **Austin** [Ros03]. **authentication** [CLP<sup>+</sup>13a, OYHSB14, WSE<sup>+</sup>16]. **Author** [Ano92a, Ano93b, Ano94a, Ano94b, Ano95a, Ano97a, Ano98a, Ano99a, Ano00a, Ano01a, Ano02a, Ano03a, Ano05a, Ano06a, Ano07a, Ano08a]. **Authors** [Ano57c, Ano57d, Ano57e, Ano57f, Ano57g, Ano57h, Ano57i, Ano57v, Ano57u, Ano58a, Ano58b, Ano58c, Ano58d, Ano59a, Ano59b, Ano59c, Ano59d, Ano60a, Ano60b, Ano60c, Ano60d, Ano60e, Ano61a, Ano61b, Ano61c, Ano61d, Ano62a, Ano62b, Ano62c, Ano63a, Ano63b, Ano63c, Ano63d, Ano64a, Ano64b, Ano64c, Ano64d, Ano64e, Ano65a, Ano65b, Ano65c, Ano65d, Ano65e, Ano66a, Ano66b, Ano66c, Ano66d, Ano66e, Ano66f, Ano66s, Ano66t, Ano66u, Ano66v, Ano66w, Ano66x, Ano67g, Ano67a, Ano67b, Ano67c, Ano67d, Ano67e, Ano67f, Ano67w, Ano67x, Ano67y, Ano67z, Ano67v, Ano67-27, Ano64k, Ano64l, Ano64m, Ano64n, Ano65k, Ano65l, Ano65m, Ano65n, Ano65o, Ano86b, Ano90c, Ano92e, Ano92f, Ano92g, Ano93e, Ano94r, Ano94s, Ano94m, Ano94n, Ano94o, Ano94p]. **authors** [Ano94q, Ano95i, Ano95g, Ano95h, Ano95j, Ano95k, Ano96g, Ano96h, Ano96i, Ano96j, Ano96k, Ano97f, Ano97g, Ano97h, Ano97i, Ano98g, Ano98h, Ano98i, Ano98j, Ano98k, Ano99f, Ano99g, Ano99h, Ano00i, Ano00f, Ano00g, Ano00h, Ano01i, Ano01j, Ano01l, Ano01m, Ano01k, Ber76a, Wie76]. **autoconfiguration** [BBC<sup>+</sup>12a]. **Autocorrelation** [BR82]. **Automata** [RS59a, Ros66, Rot66a, She59a, DWW90, EM65, HMP90, SG94b]. **Automated** [CTD<sup>+</sup>16, GAC85, GHLW84, GLM<sup>+</sup>96, GBJ<sup>+</sup>08, HL83, LS75b, Pri94, TS82, WLPL<sup>+</sup>80, WZ78, DF15, HD73, HRS07, KL63]. **Automatic** [ABCR65, AAA<sup>+</sup>17, BBD63, CFW82, Che72, Dah63, DMWW77, DMP59, FKGf12, GFS71, Hei76, HL77, Kar73, LW77, Luh58a, Maz70, Sar91a, Sar97, SBG<sup>+</sup>13, SFH65, Tar63, TYSS19, Urs75, War63, CL86, ET69, Gus97, HRWZ87, KWB<sup>+</sup>15, MC87, RSL<sup>+</sup>70, Sed67, ST72, SKSP06]. **automatically** [CJ91]. **Automation** [APS86, Ano71, CGG<sup>+</sup>64, CCG<sup>+</sup>81, GLL80, Gra69, HBT<sup>+</sup>16, MW82, SG71, SB86, Tay84, DeM91, GGKK96, Gra71, HNS<sup>+</sup>03, HHM70, HYA03, NNGV19]. **Automorphisms** [Hal60]. **Autonomic** [MC09, Kis03, WSCK17]. **Autopass** [LW77]. **autoradiographic** [LPPT86]. **Availability** [GL87, HCTS81, KMH82, AAF<sup>+</sup>09, CAK<sup>+</sup>15, DP13, FCS<sup>+</sup>04, OHK<sup>+</sup>07, Pig88, VWE02]. **available** [ACFS16]. **Avalanche** [BS69, KO65b, KO66]. **avalanching** [Vin81]. **Average** [Her65, Don69, SS86]. **average-value** [Don69]. **averaging** [LO72]. **aware** [KdAC<sup>+</sup>15, VTC09]. **awareness** [BPG<sup>+</sup>16, RVT<sup>+</sup>13, YCJ<sup>+</sup>17]. **Axially** [Key61b]. **Axioms** [Mor73]. **Axis** [Kan78, MSW69]. **Axisymmetric** [BT78, BBT83]. **Axp** [Pat85]. **Az-Type** [PL79]. **AZ1350J** [DS77]. **azimuth** [CBV08]. **B** [Bos70a, YTF<sup>+</sup>11]. **B-Adjacent** [Bos70a]. **B.E.** [NMH<sup>+</sup>07]. **B2B** [VVHL16]. **B2C** [HRZ14]. **Ba** [BPL<sup>+</sup>89, CSH<sup>+</sup>89, KBS<sup>+</sup>99, GSG<sup>+</sup>90]. **Back** [Ano14a, Ano15a, Wym57, Ano14b, Sie63, TMW<sup>+</sup>17]. **back-propagation** [TMW<sup>+</sup>17]. **backend** [Koe18]. **Background** [McN94]. **backlighting** [TMS98].



**backpropagation** [NFS<sup>+</sup>17]. **Backscatter** [Far82]. **backscattering** [ZBL<sup>+</sup>72].  
**backtracking** [SS86]. **backup** [Ste01].  
**baking** [HHSW01]. **balanced** [DGL<sup>+</sup>97, Ris73, WF83]. **Balancing** [ZS03, CHG04]. **Ball** [CGLL93, Cor93, LCB93, Mah93, RBWH93, GLCW93].  
**Ballistic** [HF90, Lud00, RMR94]. **Bamba** [WLKS98]. **Band** [Adl70, CFG64, CCE<sup>+</sup>88, HK64, McC64, Rem67, WB70, Haa70, LMPP69, Nob95b, ZH89, ZVW<sup>+</sup>11].  
**banded** [RSS91]. **bandits** [BBMR19].  
**Bandlimited** [Sta67]. **Bands** [PB69, FA70].  
**Bandwidth** [Ism00]. **banking** [SMX<sup>+</sup>14].  
**Barium** [Cam57, DH57]. **Barrier** [BKM80a, CP86, AA71, GBW<sup>+</sup>09, JP94, DS70, Mid70a, Wol70]. **Barriers** [But88a, CSE66, OSP<sup>+</sup>98]. **Base** [DC73a, Eas75, GLP76, GS74, Hal76, HKM<sup>+</sup>86, LS76a, LS76b, LN79, MM75a, McG81, Sow76, VM79, WW75, AT00, Ber76a, DCB77, FGP<sup>+</sup>85, Wie76].  
**Baseband** [KGF77]. **Based** [AGLM85, Blu79a, Eas78, EP86, HL77, HS81b, Lom80, Pet76, RP66, Shi85, Str83, ACM01, AIH<sup>+</sup>98, AKE<sup>+</sup>92, AEH<sup>+</sup>04, AHH<sup>+</sup>14, BEE<sup>+</sup>02, BW16, BC18, BHH03, BBG<sup>+</sup>14, BCC<sup>+</sup>01, CKG<sup>+</sup>99, CJ83, EGN<sup>+</sup>19, ESS<sup>+</sup>20, FRPG01, GP81, HRZ14, HP01, Ibe03, JS14, JZ91, KPB<sup>+</sup>12, KRTN<sup>+</sup>12, KMB<sup>+</sup>08, KBA07, KBK<sup>+</sup>97, KAB<sup>+</sup>05, LSS14, MDH<sup>+</sup>12, MYKK<sup>+</sup>17, MS05, MBF<sup>+</sup>07, Mey00b, MTB<sup>+</sup>90, MS07, NFI<sup>+</sup>08, NMV<sup>+</sup>09, Ngu99, Nob95b, OR92, PSA<sup>+</sup>08, PW72, RCP15, SNP06, SAA<sup>+</sup>18, SvNH13, SKS<sup>+</sup>20, SG94b, SJZ<sup>+</sup>15, SMX<sup>+</sup>14, TOKN18, Tib93, TMS<sup>+</sup>01, WZC<sup>+</sup>10, WLH<sup>+</sup>17, WP11, WML<sup>+</sup>16, WNV<sup>+</sup>02, YGR14, YAJ90].  
**Basel** [RCH<sup>+</sup>86]. **Bases** [ADST78a, MR76a, ADST78b, FBHJ04].  
**Basic** [FHVZ80, BK61, GR90, PMLA88].  
**basin** [EWBR09]. **Basis** [Ins77, Lom76, HdTR06]. **Batch** [BBC<sup>+</sup>64].  
**battery** [Ste01]. **Bayesian** [PK18]. **BBR** [LD74]. **bcc** [HBL62]. **BCS** [Ode64, Swi62].  
**be** [Gri04, MS89, BBS78]. **Beam** [BJS80, Bro88, DMWW77, Dav80, ELMR77, GOJN77, HWC88, Hor62, KP59, KP80, Lin67, Lun79, MW80a, MPS77, MP67, NM62, PS80, PW78, Bag94, BGK<sup>+</sup>82, DP68, Far98, FKOP90, GI88, GWRS90, GHP<sup>+</sup>93, KBF<sup>+</sup>92, LR79, LCL<sup>+</sup>98, MTH71, MAG<sup>+</sup>01, PGN88, RKL88b, WPH69, WW71, Gil84].  
**Beamforming** [Raa76]. **beamlines** [SRO93]. **Beams** [Le 62, WSBL90, ZSZ96].  
**Bearing** [Bau63, FL74, Lan63, Coo90].  
**Bearings** [SWD74, SM63, TT74, VG74, BCT89, BHHO59, Dec90, Gro59, Mic59].  
**Beauty** [FvGGM90]. **Becoming** [DSZ<sup>+</sup>12].  
**Bed** [Sti79]. **Behavior** [Cha62, Col62, Eas78, Fer75, GR58, Goo62, LM85, Lev64, Mid65, SM63, WA79, ASR07, BSY<sup>+</sup>15, Bau72, BP74, BP88, BGL66, BEJ<sup>+</sup>14, CP97, CF72, CR15, FP73, Ito01, KAF<sup>+</sup>16, Mor89, PL20, SMVK90, Vie86, Vur70, WZC<sup>+</sup>10, YBF<sup>+</sup>14, You90].  
**behavior-based** [WZC<sup>+</sup>10]. **behavioral** [HHC<sup>+</sup>18, OIM<sup>+</sup>13]. **Belief** [EP86]. **Below** [Sie70]. **Belt** [ELZ79]. **benchmark** [CP97, GGH<sup>+</sup>13, KGBB09]. **Bending** [BP84, LC83]. **benefits** [BR09b, Now02].  
**Bentonite** [SH63]. **BEOL** [GON<sup>+</sup>06].  
**Berlekamp** [Gus76a, Gus76b]. **Best** [Cve87b]. **better** [EG00, Jaq03, KL94].  
**Between** [CLW79, KLC84, Lew83, Mic78, AAM<sup>+</sup>07, BBT60, BCT89, Bro94, Bru78, DP13, EC71, KSH<sup>+</sup>08, Les71, Lew75, Lew12, Mei62, MKJM93, Nef90, Pes71]. **Beyond** [Ano06b, HHH04, Pad81, RD12, Won02, BFG<sup>+</sup>06, BLDM97, CS03, FKOP90, GR90, HND<sup>+</sup>06, TMF<sup>+</sup>95, WGF<sup>+</sup>06, WNV<sup>+</sup>02]. **bi** [AW82, BS64, Sui75, ZBL<sup>+</sup>72]. **Bi-** [Sui75].  
**bi-level** [AW82]. **Bias** [ASV76, Dun57b, DMN<sup>+</sup>59, Ker64, MU77, BDH<sup>+</sup>19, CM19, Fuj92, SR19]. **biased** [Yas07]. **BiCMOS** [DAC<sup>+</sup>03, FMP<sup>+</sup>03, HNS<sup>+</sup>03, Nin02].  
**Bicubic** [DB76]. **biflow** [Ari69]. **Big**

[GRS13, Nun09, BFRT13, Fre04, MCG<sup>+15</sup>, OTC14, SMX<sup>+14</sup>, VPV<sup>+19</sup>, YMR14, CDL<sup>+14</sup>, GGH<sup>+13</sup>, HAG<sup>+13</sup>, HCG<sup>+13</sup>, JSS13, Mal13, RCP15]. **bilevel** [ATL<sup>+88</sup>]. **Bimorph** [MPD86]. **Bin** [KM77]. **Binary** [AMG<sup>+87</sup>, Gri90, HA58, LT70, Rut57, Smu57, Wyn64, BL69, Dan82, Lin81, PMLA88]. **Binary-Image-Manipulation** [AMG<sup>+87</sup>]. **Binary-Weighted** [Smu57]. **binodal** [TMB<sup>+99</sup>]. **bioinformatics** [EBH<sup>+16</sup>]. **biological** [ABM<sup>+01</sup>, Bir01, DBNK<sup>+17</sup>, HdTR06, NMTP14, SPS<sup>+06</sup>, ZHP<sup>+18</sup>]. **Biology** [BMC86, ACM01, BJ06a, EB06, PMW06]. **biometric** [RCP15]. **biometric-based** [RCP15]. **biomimetic** [DBNK<sup>+17</sup>]. **biosystems** [PSP06]. **bipartite** [Rus04]. **Bipolar** [CW85, Dan81, FHL<sup>+82</sup>, Gau77b, KGCS85, ML82, MM82, Phi78, Pri58a, SGC<sup>+87</sup>, ŽFE06, BEM<sup>+92</sup>, CCJH81, Fre96, GPL<sup>+92</sup>, TWF90]. **Birefringence** [SH63]. **Birthday** [FvGGM90]. **bis** [GA88]. **bis-maleimide** [GA88]. **Bismuth** [FK60, HK64, Heb64, JJ64, Sch64, SBR64, TH64, Vui64, WS64, YWWK64]. **bismuthates** [BCSE89]. **Bistability** [HJ88]. **Bistable** [BFT79, LF64, Mos61]. **Bistable-Unstable** [BFT79]. **Bit** [ARV64, BS70, BCJ<sup>+96</sup>, Cor82, GH<sup>L+04</sup>, MRG99, WRG99, TGB<sup>+80</sup>]. **bit/s** [GP81]. **Bits** [RK66]. **BJT** [HMO81]. **BladeCenter** [Bal05, VLB<sup>+09</sup>, BBB<sup>+05</sup>, CAC<sup>+05</sup>, DBC<sup>+05</sup>, FCP<sup>+05</sup>, HCK<sup>+05</sup>, HPZ<sup>+05</sup>, HSL<sup>+05</sup>, HSCG05, PHCM05, PAB<sup>+05</sup>, VAB<sup>+05</sup>]. **blades** [HSL<sup>+05</sup>, NMH<sup>+07</sup>]. **Blasbalg** [Ano66j]. **Blazed** [BC65]. **Bleaching** [Lor70]. **blended** [MBK<sup>+15</sup>]. **blending** [MOG<sup>+19</sup>]. **blends** [KMGD19]. **Bloch** [Azb88]. **Block** [Fra79, LP75, Smi77, WF83, ARG00, FGC92, TKG89, TMS<sup>+01</sup>]. **Block-Oriented** [LP75]. **block-paging** [TKG89]. **Blockchain** [Ano19i, CDS<sup>+19</sup>, DNZ<sup>+19</sup>, NNGV19, MDN<sup>+18</sup>, VDG19]. **blocking** [Gus97, GJ00]. **blocks** [GR90, NMH<sup>+07</sup>]. **Blodgett** [RSSS82]. **blood** [LPPT86]. **Blue** [ABB<sup>+13</sup>, BSJ<sup>+13</sup>, BBK<sup>+08</sup>, BCK13, CCD<sup>+13</sup>, CP13, CKL<sup>+13</sup>, CNC<sup>+08</sup>, CHT<sup>+13</sup>, DT08, DLJ<sup>+08</sup>, EO13, EWS<sup>+13</sup>, FKL<sup>+08</sup>, KHZ<sup>+08</sup>, OWG<sup>+13</sup>, PMS<sup>+08</sup>, RIB<sup>+13</sup>, SCG<sup>+13</sup>, ABC<sup>+05</sup>, AAC<sup>+05</sup>, ADG<sup>+05</sup>, BGH<sup>+05</sup>, BHD<sup>+05</sup>, CBB<sup>+05</sup>, CBC<sup>+05</sup>, EFR<sup>+05</sup>, FRE<sup>+08</sup>, GBC<sup>+05</sup>, GZE<sup>+05</sup>, GBB<sup>+05a</sup>, HBB<sup>+05</sup>, IBP<sup>+05</sup>, LKFU05, MSW<sup>+05</sup>, MAA<sup>+05</sup>, OBB<sup>+05</sup>, SPP<sup>+05</sup>, WAB<sup>+05</sup>]. **BlueConnect** [CFS<sup>+19</sup>]. **Bluemix** [GRB<sup>+16</sup>, KMM<sup>+16</sup>]. **BlueStar** [NMV<sup>+09</sup>]. **Board** [BAH82, BCRW82, CC76b, ABM88]. **Boards** [BDWZ83, LDL84, MS60b, BBMP92, Cha88, GA88, Pau89, Whi93, WGC93]. **body** [BKB76, BMPS91, FRE<sup>+08</sup>, RE71]. **bogs** [Now02]. **Bohr** [Mer04]. **boiling** [Okt71]. **Boltzmann** [BSHM01, OD17, Pri66]. **bond** [HRWZ87]. **Bonded** [CN79, Tan74]. **Bonding** [HL83, Bag94, Dus71, HSH<sup>+88</sup>]. **book** [CHMW07, WGS04]. **Boolean** [DCB77, DC73a, FTY83, FJSS89, (Ga57, Mar64a, OH74, RW59, Rot60a, Rot60b, RK62, SBH82)]. **BooleDozer** [SKB<sup>+96</sup>]. **Boost** [SLP<sup>+20</sup>]. **Booster** [GHK67]. **boot** [WMK20]. **bootstrapping** [SS00]. **Boron** [JD67, WS75]. **Bounce** [Hen83]. **Bound** [Gri60]. **Boundaries** [KWB88, LC80, AG72, CDM89]. **Boundary** [BTP<sup>+90</sup>, Far87, Lee77a, Mei62, Pim76, RVV88, RS67, SSG69, TT74, BS71b, CP72, JS89, RS66]. **Boundary-Layer** [RVV88]. **Boundary-scan** [BTP<sup>+90</sup>]. **boundary-value** [BS71b, CP72]. **Bounded** [Fra80a, Fra82, PH81]. **Bounds** [DH73, FL75, LF77, Ris73, Don69, MM94]. **Bragg** [MJJ69]. **Braids** [BS06]. **Brain** [DLJ<sup>+08</sup>, MYKK<sup>+17</sup>, RC17]. **brain-machine** [MYKK<sup>+17</sup>]. **Brain-scale** [DLJ<sup>+08</sup>]. **branch** [HHR99]. **branch-prediction** [HHR99]. **branched** [KSH<sup>+08</sup>]. **branches** [LT95]. **Branin**

[Bre72]. **Break** [Bog79]. **Break-Up** [Bog79]. **Breakdown** [KO65b, KO66, SARG80, SAR81]. **Breaker** [Ano58e]. **Breaking** [GBW+09]. **brick** [FGH+06]. **Bricks** [WGF+06]. **bridge** [SNA02]. **Bridging** [RDL19]. **Brief** [Sta85a, GMR10]. **brigade** [HCL72]. **Brightness** [ON60]. **Brightness-Voltage** [ON60]. **Brillouin** [Spe69]. **Bring** [CLP+13b, JKB+13, DFF+15, HBB+05]. **bring-up** [DFF+15, HBB+05]. **Bring-Your-Own-Device** [CLP+13b]. **Bringing** [OYHSB14]. **Broadband** [BDHH+09, CRDI07, CS03, JB07, LJV+07, PBBL07, RWW07, RG09, SHL07]. **Brownian** [RVV88]. **Brute** [DB01]. **BSRA** [VDG19]. **Bubble** [ASV76, BL62, CERS76, CLW80, CC76a, Sch75, WY76, BK76, BBP72, BW81b, CCG73, Lin76]. **Bubbles** [CH76, JHH+81, MW62, Okt71]. **bucket** [HCL72]. **budget** [KSB07]. **budgeting** [LB07]. **budgets** [PKXX07]. **Buffer** [CW77, FLW78, SL76, Tue76, VLT+12]. **bug** [SKSP06]. **build** [AKRS04, BCK+05]. **build-up** [BCK+05]. **Builder** [HKM+86]. **Building** [ABD+16, IS20, Jur78, KFJ+06, KMM+16, KAA+18, NMH+07, ACFS16, BCC+01, FGC92, HSS+10, NMV+09, TMS+01]. **building-block-based** [TMS+01]. **Built** [FPS66, KS90, CNV+15, HMP90, RB90]. **Built-in** [FPS66, KS90, HMP90, RB90]. **Bulk** [Cha74, Pai69, Sta75, GC68]. **bumping** [GBB+05b]. **buoyant** [Fro71]. **Burning** [GFHW82, VM79]. **Burst** [CT65, Wyn64, Gor63]. **burst-error** [Gor63]. **Bursts** [MG63a, Meg60]. **Bus** [GPE99, HS81a, SLC+97, RKW99]. **bus-driven** [SLC+97]. **Business** [ADF12, FvGGM90, Luh58b, Pul07, RM10, SH57a, CKE+10, DDDKW12, Den80, DCC+17, DKR12, HSS+10, MD12b, SKP+15, TCP+16, Vay12, WAB+09, ZBG+10]. **BYOD** [JKB+13, CJK+13, SSK+16]. **Byte** [Pat86, DMR+81].

**C** [Ber76a, Wie76, CFK+91, FL89]. **C4** [DWA+08]. **Ca** [BPL+89, Mat70]. **cable** [DDA+93]. **cables** [DAS+94]. **Cache** [FHVZ80, VMH+83, BGAJ94, BM96, BBC+12b, CT06, DGL+97, FLMKS06, MBJ+97, MWS09, MMR89, Mat89, MHI01, SG94a, SSD+15, Thi88, TMB+99, VH81, WMB+15]. **cache-miss** [Thi88]. **caching** [SMC+14]. **CAD** [CS84]. **Cadmium** [Mas62]. **cage** [HDW+07, SBC+12, WBH+04]. **Calcium** [SS61]. **Calculation** [Bei74, Fro84, KRC68, LS78, Mar64b, Ove70, MM75b, RE71, Shi73]. **Calculations** [Hut74, KO66, KM66, Phi78, RS85, SM63, Fre96, Led71, Rue72]. **Calculus** [Rot66a]. **calibration** [Vie86]. **Call** [KM20, LPMDG14]. **calls** [Lom77]. **Calorimetric** [Map62]. **camera** [LPA+15, MHW95]. **campus** [RBB+11]. **campus-wide** [RBB+11]. **Can** [Goo58, Gri04]. **cancellation** [Nob95a]. **Cancer** [Pic87, OMA+96]. **candidate** [BKS+08, CCFB+12, MKW+12]. **Cantilever** [BP84, SST69]. **Capabilities** [CBBS90, AAB+05]. **capability** [CCC+15, CM19, FDS+13]. **capable** [RHC73]. **Capacitance** [AO60, CB85, FT77, Mar64b, GAOD71, KMK68, KO69a]. **capacities** [Sho04]. **Capacitor** [DK67, FMP61, Has62, Has66, HOWP92, KBS+99]. **Capacity** [ABG+09, MT77, LSS14, Sho04]. **CaPd** [WTP64]. **CAPI** [SBJS15]. **capsule** [SR71]. **capture** [KBF+04]. **Capturing** [AC92]. **Car** [BBK+08]. **Carbide** [Rut64]. **Carbon** [CSY79, HG83, LY83, SCH+09, GMP90, Gri99, KLE71]. **Carbon-13** [LY83]. **Carbon-Loaded** [HG83]. **Card** [BM84, FMP61, Has62, Has66, HPZ+05]. **cardiac** [NNN+06]. **Cards** [Has62, RBWH93]. **care** [EEM15, PL20, SSB+12, TOKN18]. **Carlo** [Ken61a, LFF90, MNR86, MS96]. **carpal**

[BC00]. **carpool** [FW83]. **Carrier** [FT64, Hai85, KO65b, ATW<sup>+</sup>08, LDSA02]. **carriers** [KAB<sup>+</sup>05]. **Carry** [Car60]. **Carrying** [Kuh88]. **Cartridge** [WCB<sup>+</sup>86]. **Case** [Keh65, KGF77, MDH<sup>+</sup>12, DCC<sup>+</sup>17, HMO81, Hof60, LB07, MOG<sup>+</sup>19, SKK14, SvNH13, VPV<sup>+</sup>19, WLH<sup>+</sup>17]. **Case-based** [MDH<sup>+</sup>12]. **Cases** [Rob67]. **Casey** [DCB77]. **catalysts** [OHWR88]. **Catalytic** [DS65]. **Cathode** [HMR82, TH11]. **Cathodes** [CBCM79]. **Cathodic** [AGLM85]. **Cation** [SK69]. **Cauchy** [Ger73, Sug59]. **Causal** [EPP10]. **cause** [Pon17]. **Caused** [Boe69]. **caustic** [KJP11]. **CC** [KFB<sup>+</sup>97]. **CC-NUMA** [KFB<sup>+</sup>97]. **CCITT** [WZ78]. **ccNUMA** [BCC<sup>+</sup>01]. **CCS** [SS87a]. **Cd** [Vur70, Tit63]. **CdCr** [FA70, Kus70, WB70]. **CdIn** [WB70]. **CDMF** [JMLW94]. **CdS** [Boe69, MSW69]. **CECSIM** [vBBE<sup>+</sup>02]. **Cell** [BV78, Gar57, LS78, RWC80, TSH92, BCKK92, DMR<sup>+</sup>81, EB06, HRG80, JS72, KBK<sup>+</sup>97, Lee77b, BDHH<sup>+</sup>09, CRDI07, JB07, KDH<sup>+</sup>05, LJV<sup>+</sup>07, NMH<sup>+</sup>07, PBBL07, RWW07, RG09, SHL07]. **Cell/B.E.** [NMH<sup>+</sup>07]. **Cells** [GMW80, LJ92, NBF<sup>+</sup>00]. **CellSs** [PBBL07]. **Cellular** [HMP90, Pic87, SG94b]. **Cement** [MS67]. **Center** [DRB<sup>+</sup>20, Pul07, BCG<sup>+</sup>09, CPD<sup>+</sup>09, KDG15, KTD20, LPMDG14, MI10, SCI05, SBB<sup>+</sup>09, TFJ<sup>+</sup>96, WH94]. **centered** [BMS<sup>+</sup>17]. **centers** [BNSG09, BSRM09, HvKI<sup>+</sup>09, NMV<sup>+</sup>09, SI09, VRA<sup>+</sup>09]. **Central** [Cho75, Col59, SC75, PBC<sup>+</sup>04, TBB<sup>+</sup>09]. **Central-Force** [Col59]. **centralized** [Yar12]. **centric** [BCE<sup>+</sup>07, DF15, HLZ<sup>+</sup>09, Sha12, ZBG<sup>+</sup>10]. **Century** [HCTS81, JS81, HBP<sup>+</sup>81, TMF<sup>+</sup>95]. **Ceramic** [BB82, Gou89, MKW<sup>+</sup>05, YCB05]. **ceramic/copper** [TKK<sup>+</sup>92]. **ceramic/copper/polyimide** [KFSZ92]. **Ceramics** [BW83, Vie86]. **CERN** [BO69]. **Certain** [MG63a]. **certificate** [MBF<sup>+</sup>13].

**Chain** [AKK<sup>+</sup>67, Fla65, GLS67, Lye77, MR76a, SSW65, DKR12, GCFW07, NQ20, NNGV19, SKK14]. **Chain-Complete** [MR76a]. **Chains** [RK75, Sch67, SP14]. **chalcogenide** [Haa70]. **Chalcogenides** [Dim70, Kas70, Von70]. **challenge** [Coo18, WA15]. **Challenges** [MDB<sup>+</sup>02, MLM<sup>+</sup>19, SCI05, AG06, BCK<sup>+</sup>05, CPCC18, DFaDNS98, GNF06, JAC<sup>+</sup>19, Lai08, LPA<sup>+</sup>15, SLA<sup>+</sup>15, SAA<sup>+</sup>18, SFG<sup>+</sup>06, SPP97, WHK<sup>+</sup>09]. **Chamber** [Cha73b, MN67a]. **Championships** [BHP17]. **Chang** [Sta75]. **Change** [Sou64, CTD<sup>+</sup>16, DDDKW12, DSZ<sup>+</sup>12, KMB<sup>+</sup>08, RBB<sup>+</sup>08]. **Changes** [CC76a, Lew83]. **Channel** [Cal81, Cio86, CDG83, DHC20, God74, Mil83, RGL75, AAC<sup>+</sup>06, BAB<sup>+</sup>18, CDS73, CDS00, FGC92, Fra80b, Irv01, KT70, LKY80, SFG<sup>+</sup>06, Sho04, WYTO04]. **Channels** [CR76, Fra79, Fra80a, Fra82, KGF77, KT73, MLT83, Sha58b, Fra89, GE02, Rus04, SJW<sup>+</sup>16, TLM83]. **Chaotic** [Hen83]. **Character** [Dic60, WR83, YG81]. **Character-Recognition** [Dic60]. **Characteristics** [BKM80b, Cre58, GLS67, JH80, KMCY82, LS78, OPR<sup>+</sup>78, Pea69, Roe66, TDM<sup>+</sup>87, UL70, WS75, WW71, BB09, Bru76, CDS73, CDS00, EWS<sup>+</sup>13, HRW69, ILH03, Kah71, KDG15, KDT18, MMR89, PH81]. **Characterization** [AT00, Ano05c, AGAP63, AEE77, Bar73, BBCV80, Esa62, GA88, GC81, MMM<sup>+</sup>05, OHWR88, OS99, SS78, SY73, Twa85, YDHS78, ATW06, ATW<sup>+</sup>08, ABM88, BSJ<sup>+</sup>13, CPTW98, DDA<sup>+</sup>93, DKS<sup>+</sup>95, GLG<sup>+</sup>99, Hof60, KB06, LBT99, Luc99, WGC93]. **Characters** [Cas70, CEHL78, GHKO57, Yha75, DDMS92, HM71]. **Charge** [CH74, DYHS78, Gra80, Kau81, LMD70, Mag73, MS60a, Sch62a, SS78, Sch96b, TY64, Fre96, HC69, HCL72, HRG80, Lee77b, Pat73, TGB<sup>+</sup>80, Var89, WYS92].

**Charge-Coupled**[CH74, HCL72, TGB<sup>+</sup>80, WYS92].**Charge-metering** [Sch96b].**Charge-Transfer** [Gra80, Kau81, Var89].**Charged** [Fre79]. **charges** [RRB<sup>+</sup>01].**Charging** [FBW77, DG93, DXZS13].**charging-point** [DXZS13]. **Chargistor**[Yu61]. **Charybdis** [HHH04]. **chassis**[BBB<sup>+</sup>05]. **Chebyshev** [FXL01, MR72].**Chebyshev-expanded** [FXL01]. **Check**[Ahu79, BBI94, Irv01]. **Checkers**[Sam59, Sam67, Sam00]. **Checking**[Pet58, PR59a]. **checks** [Irv89]. **Chef**[VPV<sup>+</sup>19]. **Chemical** [BBKW86, Chu82, Cle81, CK79, HHSW01, Ito97, Ito00, KEJ87, Leh64, Lun79, WKB<sup>+</sup>86, Bea90, Co018, CNC<sup>+</sup>95, CNS<sup>+</sup>99, GMP90, GPL<sup>+</sup>92, Luc99, Mey90, Mey00a, Ngu99, YAJ90].**chemical-mechanical** [GPL<sup>+</sup>92].**Chemical-Vapor-Deposited** [KEJ87].**chemically** [HHSW01, Ito01].**Chemisorbed** [Dem78, Lan86].**Chemisorption** [BBS78, Win78].**Chemistry** [CFG64, CD85, Hir77, KT84, KJSG<sup>+</sup>88, Spr61, FL69, HMK01, Oka69, VBDA05, YAJ90]. **Chess** [NSS58].**Chess-Playing** [NSS58]. **Chief**[Mey03, Pea09]. **China** [CXZ<sup>+</sup>17]. **Chinese**[NBF<sup>+</sup>00, Yha75, YG81]. **Chip**[ABB<sup>+</sup>99, BM84, BGR82, Ber85, CW83, DKN87, DB82, How82, IBC64, JH80, Kua95, ML82, Ost84, SW98, Ver80, Woo75, AEZ84, AUD<sup>+</sup>98, ATL<sup>+</sup>88, BBD<sup>+</sup>02, BA69, BAB<sup>+</sup>13, BHD<sup>+</sup>05, BCCK92, CDC96, Cla03, CU98, DWA<sup>+</sup>08, DTH92, DBB<sup>+</sup>02, DKS<sup>+</sup>95, DTTK95, ESHM95, EK08, FWR<sup>+</sup>11, FDS<sup>+</sup>13, GP06a, GMS05, GWRS90, HBB<sup>+</sup>05, HHSR96, Hei90, HAMC<sup>+</sup>04, IBP<sup>+</sup>05, KAB<sup>+</sup>05, LFR05, MYKK<sup>+</sup>17, MMR89, Mat89, Mil69, Mil00, MTB<sup>+</sup>90, Nai02, NFS<sup>+</sup>17, NCB03, OCB<sup>+</sup>90, OBB<sup>+</sup>05, SAT<sup>+</sup>08, SST<sup>+</sup>98, SP90, TMF<sup>+</sup>08, IBM13a, VWPB90, VLT<sup>+</sup>12, WAB<sup>+</sup>05, WYF<sup>+</sup>03]. **chip-stacking** [SAT<sup>+</sup>08]. **Chip-To-Chip**[JH80]. **Chip/Card** [BM84]. **Chips**[BFL66, Cle83, LHW81, SMD80, BEM<sup>+</sup>92, CBB<sup>+</sup>04, CAC<sup>+</sup>95, KBK<sup>+</sup>97, LD72, Okt69, SWF<sup>+</sup>09, SHR<sup>+</sup>09, SNA02, VTMB<sup>+</sup>90].**chipset** [KBG<sup>+</sup>09]. **Chlorin** [VM79].**Chlorine** [Lev64]. **Chloro** [SL66].**Chloro-aluminum** [SL66]. **chlorobenzene**[CH82, HMM82]. **choices** [SON<sup>+</sup>91].**Cholesky** [GJ00]. **cholesterol** [MD12a].**cholesteryl** [VBM71]. **chopped** [WSBL90].**Chromium** [BBKW86, KS66].**Chromium-Iron** [KS66].**chromodynamics** [VBC<sup>+</sup>08]. **Cil** [Ghe80].**circles** [Nef90]. **Circuit**[Ame80, BDWZ83, BDMW81, BGK<sup>+</sup>80, BFL66, BAH82, BBH<sup>+</sup>67, BHWZ63, CW85, Dan81, Esa62, FT80, Gun66a, HHSR96, HS61, Kar74, KCOW08, LDL84, Man85, Rot74, Rue79, SST67, Ser82, STCR84, SWC<sup>+</sup>97, Sta83, Sta84a, Sta85b, Sta87, Str59, Wal57, Wal58, ADH<sup>+</sup>00a, ABM88, BJM<sup>+</sup>06, BBMP92, BGL66, Cha88, CNC<sup>+</sup>95, DHK<sup>+</sup>92, DTTK95, FRS<sup>+</sup>18, FN71, GA88, JZ91, Kah71, OR92, Pai72, Pau89, RFB<sup>+</sup>03, RBWH93, Rue72, Sta89a, TW69, TKV00, WKP<sup>+</sup>02, WBW<sup>+</sup>15, WBD<sup>+</sup>11, Whi93, ZFD<sup>+</sup>15]. **circuitization**[ABM88]. **circuitry** [LFR05, VLKW14].**Circuits** [AGAP63, AFR62, BSS82, BM63, BRR79, CP63, DW58, Eic65, GT80, GKK<sup>+</sup>80, GSC80, HJ88, JH80, KL80, KW83, MW80a, MT64, Sta84b, Vil82, AHW<sup>+</sup>99, BJM<sup>+</sup>06, BGO03, CBBS90, CNS<sup>+</sup>99, CCW<sup>+</sup>02, CFP<sup>+</sup>07, DN97, DHK00, ESW<sup>+</sup>95, FMS<sup>+</sup>92, FKOP90, FMP<sup>+</sup>03, HRC<sup>+</sup>08, Hei90, HMP90, Koc59, KBC<sup>+</sup>03, KSL95, Lin76, MPH90, Mos61, NHKI03, Ngu99, PZK<sup>+</sup>03, Sch96b, Sri96, Sta89b, Sta89c, TLS<sup>+</sup>06, Vor71, Wie90, WSBL90].**Circular**

[BB60, CS65a, Raa76, RR87, Arb86, SN98].

**circulation** [Fro71, QS67].**Circumferentially** [BGT74]. **Cities**[HPW11, HMP<sup>+</sup>11, OIM<sup>+</sup>13, WP11,

HEH<sup>+10</sup>]. **city** [HS11, JWW<sup>+11</sup>, SHC<sup>+72</sup>]. **Clarification** [ACG<sup>+87</sup>, Swa57]. **Class** [Ahu80, Chi60a, Dub83, Hsi70, LM80, Rog66, TBB<sup>+09</sup>, WHK<sup>+09</sup>, Wyn64, Yu61, Bil72, BWB<sup>+82</sup>, BKS<sup>+08</sup>, FW08, Lei61, SM16, ST72, ST89, SBC<sup>+12</sup>, Sur15, VLT<sup>+12</sup>]. **Classes** [Cho75, MFT77, Gor63]. **classical** [Sho04]. **classification** [ACC<sup>+15</sup>, DBK82, GK64, HJW<sup>+16</sup>, NT72, PTRC16, SBD<sup>+10</sup>]. **classifier** [RLP14]. **classifiers** [BCD<sup>+17</sup>]. **clause** [vv86a]. **clauses** [dTGH92]. **Clean** [IM57, Jon65]. **cleaning** [HBC<sup>+99</sup>]. **Clearance** [Bau63]. **Cleaved** [FF86]. **Clebsch** [Rob67]. **client** [KLMV19]. **climate** [DT08, TPTH20]. **Clinker** [MS67]. **Clock** [FS88, BH95, CDM92, HAMC<sup>+04</sup>, MWW<sup>+07</sup>]. **Clocking** [HO75b, Okl03, Sea57]. **clocks** [DSS<sup>+92</sup>]. **Closed** [Mar60a, MS67, RK75, BSSZ76, KRC68, Lam77a, Mat03, Moo72]. **Closed-Cycle** [Mar60a]. **closed-form** [KRC68]. **closed-loop** [BSSZ76]. **Closing** [BCH<sup>+16</sup>]. **cloth** [Oht95]. **Cloud** [CJJ<sup>+16</sup>, GRB<sup>+16</sup>, HG14, YGR14, ABD<sup>+16</sup>, AA18, BWT<sup>+14</sup>, BCC<sup>+16</sup>, BCG<sup>+09</sup>, BCH<sup>+16</sup>, BGM<sup>+16</sup>, BMM<sup>+20</sup>, BBB<sup>+20</sup>, BB09, BBG<sup>+14</sup>, CTD<sup>+16</sup>, HBT<sup>+16</sup>, ISV16, JDBP10, KMM<sup>+16</sup>, LSZ<sup>+10</sup>, MWL<sup>+14</sup>, NRD<sup>+09</sup>, NAN<sup>+18</sup>, OEN<sup>+16</sup>, RBL<sup>+09</sup>, SHV13, SM16, SIKdL16, WML<sup>+16</sup>, Yar12]. **Cloud-based** [YGR14]. **clouds** [ACFS16, MSV14]. **clue** [LPM<sup>+12</sup>]. **Cluster** [BBS78, BSD<sup>+20</sup>, Dam66, GPE99, RKW99, IS20, JSS13]. **Clustering** [BF77, BM63, Bon64, O'M85, SSW91, Sta86, DB01]. **Clusters** [Eas78, Sta84b, Sta87, MBJ<sup>+97</sup>, Sta89b, Sta89c]. **Clutch** [Fit57]. **CMOS** [ADG<sup>+95</sup>, Ano06b, Sta90, Agn02, BFG<sup>+06</sup>, BS95, BMT<sup>+90</sup>, CAC<sup>+95</sup>, CTT91, DTH92, DTTK95, DAC<sup>+03</sup>, ECD<sup>+99</sup>, ESW<sup>+95</sup>, Fle95, Fra02, FHSD06, Gre97, HND<sup>+06</sup>, HZB<sup>+06</sup>, HNS<sup>+03</sup>, HRC<sup>+08</sup>, Isa00, IFB<sup>+11</sup>, KB06, KCA<sup>+95</sup>, KACS95, KSL95, LSF84, LRMT95, LCHL95, MMR89, Mat85, Now02, PZK<sup>+03</sup>, SSM97, SG95, Sec95, SWC<sup>+95</sup>, SPR<sup>+95</sup>, SWC<sup>+97</sup>, SMK<sup>+99</sup>, Sta02, TDM<sup>+87</sup>, TMF<sup>+95</sup>, Tau02, WL97, WMH<sup>+97</sup>, WNV<sup>+02</sup>, YS99]. **CMS** [BGW91]. **Co** [AKG<sup>+19</sup>, BCK13, Lye77, KKS02, SMP<sup>+04</sup>, IBM13c, Bra72b, Bru78, OHSP76]. **Co-design** [AKG<sup>+19</sup>, BCK13, IBM13c]. **co-simulation** [SMP<sup>+04</sup>]. **co-verification** [KKS02]. **Coal** [Sti79]. **Coated** [CHBH85]. **Coating** [Was77]. **Coatings** [Ros78, LG88]. **Cochlear** [Ins77]. **CODA** [FPST14]. **Code** [Bea74, BMS80, Chi86, KLS66, KM20, Mar80, Mel60a, PH74, Pat85, WF83, Gla97, Gyg08, KL97, Mye72, PLS20, TAE<sup>+07</sup>]. **Coded** [Voi65, GYK99]. **Coder** [GCPVG85, PMLA88, SM98, MP88a, MP88b, PM88]. **Codes** [Ano93f, BD62, Bla79, CR76, CH84, Cro70, Fra82, Gri60, HO75b, Hsi70, HBC70, LM80, Mar61, MLT83, MG63a, Pat70, PR59a, Rog66, SS59a, Ull65, Wyn64, Gor63, How89, LKY80, Mac60, Meg60, Mel60b]. **Coding** [Fra70, Fra79, Fra80a, Fra89, HP63, Kob70, MD65, Pip79, RL79, Win62, BK74, Dan82, Fra80b, KT70, KB74, Lan84a, Lan84b, MP88a, Pat89, Ris76, TLM83]. **coefficient** [Rat68]. **Coefficients** [Beb62, DG84, MR72]. **coercion** [MKW<sup>+12</sup>]. **Coercive** [BB60, Pes71]. **CoFe** [JWSP06]. **CoFe/MgO** [JWSP06]. **cognition** [AWK20]. **Cognitive** [BR17, BCS<sup>+18</sup>, KLMV19, Pic18, ABD<sup>+18</sup>, DCC<sup>+17</sup>, KAA<sup>+18</sup>, KHK<sup>+18</sup>, NAN<sup>+18</sup>, RCP<sup>+16</sup>, SN15, WSCK17, MBK<sup>+15</sup>]. **Coherence** [CGR88, KH88, DY89, NNMJ01]. **Coherency** [Fan64]. **Coherent** [But88a, Gef88, Loy79, RS69, SB62, SBJS15]. **coil** [BM68]. **Coincidence** [ZG65]. **collaborative** [PMS<sup>+17</sup>, RK15, WYF<sup>+03</sup>]. **Collapse** [How82, Gol69, Mil69, Mil00, NL69, Okt69]. **collapsing** [PV93]. **collection** [DSRC98, WC69]. **Collector**

[Ken61b, MW79, Rut57, ZCK71]. **Collision** [HS81a]. **Collision-Free** [HS81a]. **Colloidal** [CHBH85, MSG<sup>+01</sup>]. **Color** [Ano59n, BJS80, Far83, FLCB85, Kan78, KFYU92, LMT84, San83b, KLMV19, LL98]. **Column** [CERS76, Hsi70]. **Combination** [WC69, BL15]. **Combinational** [Eic65]. **combinations** [SLZL18]. **Combinatorial** [Kuh60, Luk75, Tuc60a, Vil82, Agr01, Bur72]. **Combinatory** [Bur72]. **Combined** [HP84a]. **Comment** [Aas70, Ber76a, DCB77, Lan96, Sta75, Tid62, Wie76]. **Comments** [Fre70, Rad62]. **Commerce** [DLN14, BDMN14, DGH<sup>+14</sup>, HRZ14, KKL<sup>+14</sup>, YGR14, YMR14]. **Commercial** [BFH10, FAJ<sup>+94</sup>, BEKK00, HHR99, Irv91, KEL<sup>+00</sup>, NAN<sup>+18</sup>, JMLW94]. **commitment** [BBSW97]. **commitment-revision** [BBSW97]. **commodity** [BCC<sup>+01</sup>]. **Common** [DB82, Bus71, CBV08, HKLM97, HB73, LH03]. **common-core** [Bus71]. **common-mode** [HB73]. **Communication** [Ahu80, Ano58f, Cha75b, CR76, Chi60b, CW77, GRT74, MT77, MFT77, SC20, SL67, Wie58, ZST<sup>+07</sup>, dG58, AGZ94b, AEH<sup>+04</sup>, DAS<sup>+94</sup>, ESW<sup>+95</sup>, FMP<sup>+03</sup>, GBRJ05, Irv93, Irv01, Pig88, SJW<sup>+16</sup>, Tho70, TJHK03]. **Communications** [And65, Ano66j, Ast58, Bla65, Cha75a, JS81, Str83, WZ78, Wes78, JGD<sup>+08</sup>, MZS<sup>+03</sup>, PK03, Ung72]. **communities** [MDMN10]. **community** [KEKP20, LH03, SXW<sup>+13</sup>]. **Commutator** [Dun57b, Wal58]. **Compact** [Mar80, Bra94, MN90, WSK<sup>+93</sup>]. **Companion** [MBK<sup>+15</sup>]. **comparative** [MDH<sup>+12</sup>, SXYP12]. **comparators** [BW81b]. **Compare** [KMC<sup>+11</sup>]. **Comparison** [Ano66j, Bla65, Boh73, BBT85, Bru78, Mat03, MW79, SBT87, SBH82, Fra89, GHN04, MD12a]. **Comparisons** [SLHM67]. **compatible** [DTTK95]. **Compatibles** [Mar64a]. **Compensating** [Ins77]. **Compensation** [Mee67, Phi78, KSK98]. **compensators** [GB71]. **competition** [AUW<sup>+09</sup>, Sav69]. **Competitive** [SAPT01]. **competitiveness** [KRS<sup>+17</sup>]. **Compilation** [Mar80]. **Compile** [Laf80]. **Compile-Time** [Laf80]. **Compiler** [BMS80, Chi86, Ris84, AKE<sup>+92</sup>, Bla94, GHL<sup>+04</sup>, SK86, TMT<sup>+20</sup>]. **compiler-based** [AKE<sup>+92</sup>]. **compilers** [Sar97]. **Compiling** [ACF<sup>+80</sup>, Arb86, DO86, Mye72]. **complementary** [DMR<sup>+81</sup>, PMW06]. **Complete** [Dub72, MR76a, Moo60, Hoff60, Koz81b, Koz81a]. **Complex** [Cle81, CS65b, Far91, KCH<sup>+09</sup>, Nus76a, Nus76b, PPS82, Sch84, TS82, BGW<sup>+04</sup>, BMD<sup>+20</sup>, BFG<sup>+99</sup>, Gri04, Hol78, Kep75, Mas97, PBC<sup>+04</sup>, PAH<sup>+18</sup>, RWB<sup>+10</sup>, Rue72, SA98, SPS<sup>+06</sup>, SA00, Tib93, TBB<sup>+09</sup>, VMS<sup>+14</sup>, Wai05]. **complex-arithmetic** [Wai05]. **Complexity** [CLW80, HP84a, HS11, NSS58, Sav70, Kri82, Pip81, Pip87, SS86, ZBBB17]. **compliance** [BNN<sup>+09</sup>, Coo90, EPP10, MS07]. **Component** [BBT60, GSAB93, BBSW97]. **component-supply** [BBSW97]. **Components** [Hud63, Kan78, SM78, DBK82]. **Composing** [Yha75]. **Composite** [GS75, Kan78, Ros78, Bra94]. **Composites** [MLSS84, MVK85]. **Composition** [MS67, MOG<sup>+19</sup>, WTS<sup>+11</sup>]. **Compound** [FZ88, MS67, TWF90, VBE94]. **Compounds** [BMW83, BTH62, CK79, CGHK77, KSF90]. **comprehensive** [BCH<sup>+16</sup>, vBBE<sup>+02</sup>]. **compressed** [FHPR01, FR01]. **compressed-memory** [FHPR01]. **Compression** [LP75, TLR85, AGJA06, ATL<sup>+88</sup>, BK74, BL98, CDC96, Cra98, Kam98, KB74, Mar98, MRG99, SLJ<sup>+15</sup>, ZDB<sup>+18</sup>]. **comprising** [AKRS04, CBB<sup>+04</sup>]. **Computation** [Ben73, Ben88, BJ67, Che72, DHM75, Dub83, Duk90, Eli58, FL75, Ho75a, Kog57, Kog58b, Kog58a, Kog59, LF77, Lev66, Mar90, MY67a, MY68, NQ78, BHH19, Ben00, CW58, CN94,

FKL<sup>+</sup>08, Gla97, Mer04, NLP17].  
**Computational** [Ano19g, Bla88, CK17b, Cor18, Jam89, MOG<sup>+</sup>19, Moo72, NNN<sup>+</sup>06, PCW<sup>+</sup>17, RK75, ACM01, AUW<sup>+</sup>09, BH11, Her72, HMK01, KMGD19, TMS<sup>+</sup>01, VPV<sup>+</sup>19, Var19, VRA<sup>+</sup>09, WG19, HMOS81].  
**computationally** [ASL<sup>+</sup>19].  
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## D

[DWA<sup>+08</sup>, EFR<sup>+05</sup>, EK08, KYY<sup>+08</sup>, PLS20, RG09, SAT<sup>+08</sup>, Sch67, SJMBK08, ZVW<sup>+11</sup>]. **D-Chains** [Sch67]. **dairy** [LZZ<sup>+16</sup>]. **Damage** [HD69, Fon99]. **damascene** [VBDA05, AUD<sup>+98</sup>]. **DAMOCLES** [LFF90]. **damper** [LR79]. **Dark** [DA77]. **DASD** [KLRS96]. **dashboards** [YMR14]. **Data** [ÅC64, And65, ADST78a, AHN<sup>+03</sup>, BJS80, Ber76b, BL98, CAE<sup>+76</sup>, Cha75a, Cla03, CPCC18, CMW92, CDH64, Cro79, DSW63, DG84, DC73a, DGB78, DAUS91, DMP59, Eas75, Eas86, EKMW64, Fal70, Far83, FLCB85, Far91, GLS74, GLP76, GS74, GHK67, God74, Gri69, Hal76, HLZ<sup>+09</sup>, HF78, Hop59, Hop61, HP84b, JS81, JMLW94, Kan78, Kob70, LS76a, Lew80, LS76b, Lom77, Lom80, LN79, Low78, LSH76, McG81, MHI98, Mul74, Mur57, NB61b, PTRC16, Sow76, SW74, Tas57, Wal58, WW75, WSJ<sup>+19</sup>, WY76, ARG00, AKRS04, ASR07, ADST78b, ATL<sup>+88</sup>, ABB<sup>+00b</sup>, BK74, BDMN14, BHH19, BCG<sup>+09</sup>, Ber76a, BGL07, Bev69, BFRT13, BKM<sup>+69</sup>, BC18, BMS<sup>+17</sup>, BL15, BBI94, BBC<sup>+08</sup>, Bro72, BSRM09, Car10, CGM<sup>+15b</sup>, CP13, CN18, CDC96, CN71, CPD<sup>+09</sup>, CFP20, CNSS12, Cor69, Cra98, DF15, DBK82]. **data** [DCB77, EB06, EÖH10, ESW<sup>+95</sup>, FGG<sup>+13</sup>, FHPR01, GZE<sup>+05</sup>, GDLS14, GAB<sup>+08</sup>, Gra71, GRS13, Gus03, HvKI<sup>+09</sup>, HTH<sup>+09</sup>, HRF<sup>+17</sup>, HKD06, IMC<sup>+10</sup>, Irv93, KBJ<sup>+18</sup>, KBP<sup>+12</sup>, Kan15, KCML13, KOP14, KB74, KBF<sup>+04</sup>, Kon69, KSSC<sup>+13</sup>, KDG15, KTD20, KSA<sup>+04</sup>, Kri82, KACS95, KRS<sup>+17</sup>, MTF<sup>+95</sup>, MYKK<sup>+17</sup>, MA96, McN94, MCG<sup>+15</sup>, Mel60b, MAD<sup>+98</sup>, MI10, NMV<sup>+09</sup>,

NMTP14, OTC14, OOL<sup>+12</sup>, PMS<sup>+17</sup>, PK03, PR71, PMW06, Rei69, SG71, SCI05, SI09, SG94a, SBB<sup>+09</sup>, SNA02, SLJ<sup>+15</sup>, Sto91, SMX<sup>+14</sup>, TB00, TG91, TJHK03, VPV<sup>+19</sup>, VMAB18, VRA<sup>+09</sup>, Wie76, Yas07, YMR14, YR91, CDL<sup>+14</sup>, Cop94, GGH<sup>+13</sup>, HAG<sup>+13</sup>, HCG<sup>+13</sup>, JSS13, Mal13, RCP15]. **data-based** [SMX<sup>+14</sup>]. **data-center** [MI10]. **Data-centric** [HLZ<sup>+09</sup>, DF15]. **data-driven** [KRS<sup>+17</sup>]. **Data-intensive** [AHN<sup>+03</sup>]. **data-management** [FGG<sup>+13</sup>]. **Data-Recording** [SW74]. **Database** [Eas78, FLW78, Fag77, LDSY91, TPF<sup>+91</sup>, ZDB<sup>+18</sup>, vv86a]. **datacenter** [KDT18]. **Dataflow** [PMS<sup>+17</sup>]. **datasets** [GDB16, SHCV19]. **DataStores** [RCFN<sup>+08</sup>]. **Davidenko** [Bre72]. **Davidenko-Branin** [Bre72]. **day** [DSS<sup>+92</sup>]. **Days** [Gol87, Smo04]. **Db2** [CHJ<sup>+18</sup>]. **DC** [Ho75a, Sak79, WF83]. **DC-Balanced** [WF83]. **DCS** [Wei91]. **DDR3** [VLT<sup>+12</sup>]. **deadline** [CSW73]. **Deadlock** [Ahu79, Ahu80, ABF<sup>+10</sup>]. **debonding** [RKL88a]. **debt** [Mar12]. **Debugging** [DFE<sup>+15</sup>]. **Decay** [DB79, SG71]. **Decimal** [DDZ<sup>+07</sup>, Gri90, SKC09, WET<sup>+10</sup>]. **Decision** [KT73, Pet77, RS59a, AYA14, CDG<sup>+10</sup>, FKOW16, JWW<sup>+11</sup>, LB07, LPMDG14, MD12a, Mye72, PW72, RDL19]. **Decision-Feedback** [KT73]. **decision-maker** [MD12a]. **decision-making** [PW72, RDL19]. **decision-support** [JWW<sup>+11</sup>]. **decisions** [GMX14, ZBG<sup>+10</sup>]. **declarations** [ABH<sup>+19</sup>]. **declarative** [NMTP14]. **Decodable** [LM80, LKY80]. **Decoder** [Pat86, Sav70, Smu57, Bla84a, Bla84b, Nob95b]. **decoders** [LL99]. **Decoding** [Jel69, Mer88, Moo60, Ull65, Kob71]. **Decomposing** [BZ06a, CFS<sup>+19</sup>]. **Decomposition** [BRA84, DC73a, DCB77, PL79, PAH<sup>+18</sup>, HT69, KP<sup>+12</sup>]. **decompression** [KMH<sup>+98</sup>]. **decoupling** [HOWP92]. **DED** [Hsi70]. **deduction**

[AC92]. **Deductive** [Wat60b]. **deemed** [ASL<sup>+</sup>19]. **Deep** [BBD<sup>+</sup>17, CK17a, CNP<sup>+</sup>17, DB20, EGN<sup>+</sup>19, KSA<sup>+</sup>04, MMB12, SH69, AKG<sup>+</sup>19, AC92, ARS<sup>+</sup>17, BHW<sup>+</sup>17, BSRG17, CFS<sup>+</sup>19, CFP20, GKT<sup>+</sup>17, NG17, Lin76]. **deep-learner** [CFP20]. **Deep-Level** [SH69]. **Deep-UV** [Lin76]. **DeepQA** [GLK<sup>+</sup>12, KPB<sup>+</sup>12, KBP<sup>+</sup>12, WKF<sup>+</sup>12]. **defaults** [CHdTG92, dTGHC92]. **Defect** [DJ70, FF73, HB74, SARG80, Sta83, Sta85b, WA79, BMT<sup>+</sup>90, HS71, YCB05]. **Defect-Related** [SARG80]. **defective** [Hui90]. **Defects** [HBR85, HBR86, Sta84a]. **Defense** [HT16]. **Deficiencies** [SK69]. **defined** [AAB<sup>+</sup>14, AAS<sup>+</sup>14, AHH<sup>+</sup>14, BBG<sup>+</sup>14, DOJ<sup>+</sup>14, EM65, FHL<sup>+</sup>14, KRD<sup>+</sup>14, KFW<sup>+</sup>14, LBC<sup>+</sup>14, MSV14, SMC<sup>+</sup>14]. **Defining** [WSE<sup>+</sup>16]. **Definition** [CAE<sup>+</sup>76, Lom80]. **Definitions** [CT65]. **DEFLATE** [KMA<sup>+</sup>20, SKS<sup>+</sup>20]. **Deflection** [ELMR77, FBW77, Zwe65]. **Deflector** [KHKM64, Rab69]. **Deformation** [GLCW93, WS72]. **Degradation** [HW87, Lud00]. **Degree** [Hau67, MM94]. **Delamination** [AGLM85, Klo87]. **Delay** [BDMW81, Cal81, Fra80a, Fra82, BH95, BMT<sup>+</sup>90, CH06, FN95, KSK98, MTB<sup>+</sup>90, NLP17]. **delay-cost** [FN95]. **delay-test** [MTB<sup>+</sup>90]. **Delayed** [BSSZ76]. **delivered** [HSS<sup>+</sup>10]. **Delivering** [ODL<sup>+</sup>09, OEN<sup>+</sup>16, CCE<sup>+</sup>20, VSS<sup>+</sup>09]. **delivery** [BNN<sup>+</sup>09, JQB<sup>+</sup>09, KJS09, LRV<sup>+</sup>09, Tag09, VMS<sup>+</sup>14, Yar12]. **Delocalized** [HSH<sup>+</sup>88]. **DELPHI** [FRPG01]. **delta** [LKY80, HF91]. **delta-decodable** [LKY80]. **Demagnetization** [Kum65]. **Demand** [ABG<sup>+</sup>09, BT84, Fro84, LMT84, Elg11, WAC<sup>+</sup>16]. **Demodulation** [Hop59]. **demonstrator** [GP06a]. **demultiplexor** [AF99, RT99]. **Dendritic** [PCDW78, TMW<sup>+</sup>17]. **Dense** [GSC80, AGZ94c, FKK<sup>+</sup>03, Gus97]. **densities** [ABB<sup>+</sup>08]. **Density** [BDWZ83, BKM80b, BCRW82, CDS<sup>+</sup>86, Erd88, Gra80, Hoa61, LHW81, Ove70, PH74, Pat85, Sch85, Sko58, Sta85b, CCJH81, Hoa00, KTD20, MTF<sup>+</sup>95, Nai02, Ngu99, PSA<sup>+</sup>08, Pat73, PK88]. **Department** [Gol87, WH94, Oka69]. **Dependability** [ST89]. **Dependence** [Bru76, CH74, Dou62, Hun59, ODR70, Swe62, Tin62, Whi70, Sar91a, vHv<sup>+</sup>89]. **dependencies** [Fag77]. **Dependent** [Fra79, AKKJ72, Fro71, Mel60b, Nes98]. **depletion** [LBT99]. **deployment** [CDG<sup>+</sup>10]. **Depolarization** [KH75]. **deposit** [Jon72]. **Deposited** [Ahn66, KEJ87, O'H78, PDLM67, SJ70, AF68, Gri99, OSP<sup>+</sup>98]. **Deposition** [Ham78, KS79, KWJJ84, Bea90, CNC<sup>+</sup>95, CNS<sup>+</sup>99, Fon99, GMP90, JL90, Mey90, Mey00a, Ngu99, OHWR88, Ros99, SLYR72, YAJ90]. **depth** [CBV08, SS86]. **depth-first** [SS86]. **Derivation** [Mar64a, SS76]. **Derivatives** [Ins76]. **Derived** [ARV64, ESS<sup>+</sup>20, LS73]. **dermoscopy** [CNP<sup>+</sup>17]. **descent** [Lan66]. **Describing** [Her66, NB61a, NB61b, Can73]. **Description** [LST80, MO84, OHM<sup>+</sup>85]. **Design** [AKK<sup>+</sup>67, ABCR65, Abb66, Aic84, AAC<sup>+</sup>05, ABPS66, AF99, Ano20e, BM84, BBSW97, Bea90, BHP83, BFL66, BAH82, Bos97, Bro78, CD78, CT82, CDS<sup>+</sup>86, CMPR64, CA84, CGG<sup>+</sup>64, CCG<sup>+</sup>81, CBB<sup>+</sup>05, CP63, Cor82, Cor84, CDS73, CDS00, Dan81, Dav82, Dha68, EBH<sup>+</sup>16, EMM<sup>+</sup>18, Eic18, ESA02, EGH<sup>+</sup>96, FHVZ80, FLCB85, FN71, FGM<sup>+</sup>83, FHL<sup>+</sup>82, FPB<sup>+</sup>11, Ghe80, GAOD71, GH96, GR92, GHK67, GLL80, GHKO57, GS82b, HNS<sup>+</sup>03, HPWW81, Has66, HP66, HD73, HY84, Hea76, HO96, JSR<sup>+</sup>18, Jur78, KS90, KMO64, KC66a, KKT<sup>+</sup>95, KMA<sup>+</sup>20, Kos15, Kue60, LV67, LL93, Lip92b, LST80, Mac60, MDG<sup>+</sup>06, MO84, MFT77, ML82, MDR<sup>+</sup>07,

MM82, MHI98, MAD<sup>+</sup>98, Mon82a, MHR90, Mul74, MT64, Nii95, Osw74, Pad83, Pat72, PK03, Poh86, PSS67, RK72, RR83, RGL75, RWM<sup>+</sup>05, RP66]. **Design** [SA98, SRJ<sup>+</sup>20, SGS<sup>+</sup>96, ST75, Sch81, SHR<sup>+</sup>09, Sch80, SST67, SG95, SBP<sup>+</sup>03, SCC<sup>+</sup>97, SON<sup>+</sup>91, SBDT<sup>+</sup>09, SK98, SV91, Sta90, SCG<sup>+</sup>13, TK64, Tay84, IBM13a, Tro80, TFL<sup>+</sup>98, VMM<sup>+</sup>94, VCM<sup>+</sup>20, Ver80, VLB<sup>+</sup>09, WW75, Wil85, WCB<sup>+</sup>86, WWK<sup>+</sup>87, Yas85, ZL87, AGZ94a, ADH<sup>+</sup>00a, AEZ84, AFM<sup>+</sup>02, AKG<sup>+</sup>19, AKRS04, AHJ<sup>+</sup>57, BLM<sup>+</sup>99, BDN<sup>+</sup>02, BTP<sup>+</sup>90, BPS<sup>+</sup>96, BBD<sup>+</sup>02, BJM<sup>+</sup>06, Ber76a, BAB<sup>+</sup>07, BWB<sup>+</sup>18, BWB<sup>+</sup>20, BH11, BCK<sup>+</sup>05, BBMP92, BKRF02, BCK13, BBC<sup>+</sup>08, BHD<sup>+</sup>05, BMT<sup>+</sup>90, Cha88, CTS<sup>+</sup>92, CBC<sup>+</sup>18, CAD<sup>+</sup>09, Cor93, CW91, CCW<sup>+</sup>02, DBB<sup>+</sup>02, DKRS07, DHK<sup>+</sup>92, DeM91, Dec90, DGG<sup>+</sup>92, DEH<sup>+</sup>12, Dus71, FI73, FAFL91, FRS<sup>+</sup>18, GGKK96, GM69, GPL<sup>+</sup>92, HDW<sup>+</sup>07, Hen68, HCG<sup>+</sup>13, HBB99, JAC<sup>+</sup>19, KL63, KLRS96, KBM<sup>+</sup>99, KBK<sup>+</sup>97, KCOW08, Kum92, LR79, Man90, Mar12, MMR89, Mat98, NCB03, ODA03, PBC<sup>+</sup>06, PBK96, RMM20]. **design** [SNP06, Sec95, SPR<sup>+</sup>95, SWC<sup>+</sup>97, SY92, TSH92, Tau02, IBM13c, TBB<sup>+</sup>09, TBG<sup>+</sup>15, TFL82, TR77, WKP<sup>+</sup>02, WBW<sup>+</sup>15, Web00, WPL<sup>+</sup>12, Wei91, WBD<sup>+</sup>11, Wie76, WG19, WHK<sup>+</sup>09, WYF<sup>+</sup>03, WBS<sup>+</sup>18, WYS92, YS99, ZY72, ZBBB17, ZTC<sup>+</sup>13, ZFD<sup>+</sup>15, RWW07]. **designed** [NAN<sup>+</sup>18, WW71]. **Designer** [Wil97]. **Designer-level** [Wil97]. **designers** [DRSM15]. **Designing** [EEM15, SMSC14, SN15, VSS<sup>+</sup>09, GB71]. **Designs** [ADS72, BBHS84, LKL<sup>+</sup>81, Mon82a, CT06, GBRJ05, Kum98, SRCW97, SRH<sup>+</sup>18, WET<sup>+</sup>10]. **Desk** [Tod78b]. **Desk-Top** [Tod78b]. **Desktop** [BBGE<sup>+</sup>14]. **Destructive** [ABPS66]. **detailed** [HdTR06]. **detailing** [TBH<sup>+</sup>17]. **detect** [SJW<sup>+</sup>16]. **Detecting** [CR15, AC84, BDH<sup>+</sup>19, FRPG01].

**Detection** [ABF<sup>+</sup>10, BH82, Dam66, Dav80, Eic65, FF73, LT70, Mou86, PSH80, PM72, VMAB18, ZG65, CJH<sup>+</sup>15, DF15, EÖH10, Hei90, KCML13, OCT68, PL20, SBG<sup>+</sup>13, SKSP06, SXW<sup>+</sup>13, VNT16]. **Determination** [AO01, BBD63, BBT79, EWS<sup>+</sup>13, FXL01, GSVE83, HS81b, MN67a, MWN63, PC64, Sch84, Seg62, vS57, GFS71]. **Determine** [Spr61]. **Determining** [Ahu80, AW76, BBT60, Gec74, MD65, MS67, SH57b, SH57c]. **Dev** [Ano93c]. **Develop** [ACG<sup>+</sup>87, Ber76a, DCB77, Lan96, Sta75, Wie76]. **Developer** [RKL88a]. **Developer-induced** [RKL88a]. **Developers** [KM20]. **Developing** [LGF<sup>+</sup>03, AKNR10, HMK01, VSS<sup>+</sup>09, YGR14]. **Development** [Ano06c, AEE77, BSS82, Bal05, BDS<sup>+</sup>97, CCC<sup>+</sup>79, CC76b, DWGC85, Des02, Des04, Fit57, FL67, GP06a, GRS87, GW57a, GW57b, KAB<sup>+</sup>05, Nor58, PPS82, PERW02, PHCR81, SPP72, Tro80, Tu75, ATW06, ABL<sup>+</sup>84, ABR71, AAH68, AHM<sup>+</sup>07, BKN10, Bro85, DYK10, EMM<sup>+</sup>18, FPST14, GON<sup>+</sup>06, GMR10, GHL<sup>+</sup>04, GAOD71, Ito97, Ito00, LCHL95, LMW<sup>+</sup>01, LSS<sup>+</sup>20, MBB<sup>+</sup>20, PBC<sup>+</sup>06, RBB<sup>+</sup>02, RH90, SM71, WTT<sup>+</sup>14, Wil93, PS09]. **Developments** [Con60, May81, OO81, CBH<sup>+</sup>05, Lax67, VWPB90]. **Deviation** [JD66]. **deviations** [Swi62]. **Device** [Ano06b, AGAP63, BGK<sup>+</sup>80, CLP<sup>+</sup>13b, Dum57b, DMN<sup>+</sup>59, Esa62, GHP<sup>+</sup>85, Hoh78, HWC88, JKB<sup>+</sup>13, KMCY82, KGCS85, LB85, LCH74, PSS67, RGL75, RWC80, RHM63, SB64, Tro80, AAC<sup>+</sup>06, BKS<sup>+</sup>08, Bus71, CS84, FP73, HBB99, HHC<sup>+</sup>18, LHJ69, MHW95, RH90, Sch91, TS69, TGB<sup>+</sup>80, Vin81]. **device-independent** [CS84]. **Devices** [Ano06b, BT84, BCGS81, CH74, DO74, FC79, Gae79, Han57, Her65, Hor62, Hov78, JHH<sup>+</sup>81, KH88, KN81, LF64, ON60, OK82, Phi78, Yu61, BCGS00, CLP<sup>+</sup>13a, HND<sup>+</sup>06, HVK<sup>+</sup>90, HCL72, HST06, KKT09, LFF90,

LLF<sup>+</sup>92, OYHSB14, Pat73, RRB<sup>+</sup>01, SAK70, Wie90, WYS92, ZG71]. **DevOps** [MWX<sup>+</sup>17]. **dextrous** [NS92]. **DFT** [ACM01, RS85]. **DFT-based** [ACM01]. **DFU** [EWT<sup>+</sup>07]. **Diagnosis** [Bar83, EL83, FE75, Pet77, Rot66a, SLG78, Sta90]. **Diagnosis-Oriented** [FE75]. **Diagnostic** [CW83, Sch67, TS82, Osb93]. **diagnostics** [GBB<sup>+</sup>05a, PHCM05, SMK<sup>+</sup>99]. **diagonal** [CAW<sup>+</sup>98, KFYU92]. **Diagram** [MJJ69, MS87, SN87]. **Diagrams** [CA84]. **Dialogue** [Hei76]. **Dialogues** [LG78]. **Diameter** [Rio60]. **diameters** [HS60]. **Diamond** [Ros78, TK64]. **Diamond-Composite** [Ros78]. **Diamondlike** [GMP90, Gri99]. **diarrhea** [TBH<sup>+</sup>17]. **diazo** [CH82, HMM82]. **diazo-type** [CH82, HMM82]. **dichroism** [SN98]. **Dictionary** [Mer88, Tar63, KCML13]. **Dielectric** [Buc99a, CS65b, MVK85, OPR<sup>+</sup>78, O'H78, OG80, Sch62a, SAK70, UL70, ABC<sup>+</sup>99a, Buc99b, CNS<sup>+</sup>99, Gre68, GNF06, LV94, Ngu99]. **Dielectrics** [DK67, CNC<sup>+</sup>95, EB99, KBS<sup>+</sup>99, Luc99, OS99, WNV<sup>+</sup>02]. **Difference** [Ano67g, Ano67u, AG72, CFL67, GM72, Lax67, Wid67]. **Different** [Cho75, MFT77, CXZ<sup>+</sup>17]. **Differential** [Bay69, EB91, ET70, Her66, Le 62, PB69, AGJA06, Dan66, FW67, Ger73, HB73, KMK68, KO69a, LO72, Mos61, Pai69]. **difficulties** [Kit89]. **Diffraction** [BF63, GSVE83, Jon65, Jon70, Las63, MJJ69, HHB<sup>+</sup>89, Seg68]. **Diffused** [KMO64, KM68]. **Diffusion** [BL62, BS77, DJ70, Fis88, HKvG<sup>+</sup>11, JD66, Ken61a, KO65a, KM66, LD74, MM75a, MLSS84, RK74, Swa59, SS59b, Zar57, vS57, Can73, CG71, OSP<sup>+</sup>98, SR71, SHC<sup>+</sup>72]. **Digit** [Meg63b, Meg63a]. **Digit-by-Digit** [Meg63b, Meg63a]. **Digital** [ÁC64, AP82, ARV64, BH95, BJS80, Ben59, Ber76b, BBD<sup>+</sup>98, Coo82, DMP59, EHHP67, Fre67, GT87, HB73, HP84b, Hor62, Hor76, KLS66, KHKM64, KLE71, LL83, MG62, MBF<sup>+</sup>13, Mon82b, Nus76b, Par66, San83b, UMK<sup>+</sup>85, VSF65, Voi65, WSW83, Wal58, Wel61, van77, AFFS98, AHJ<sup>+</sup>57, CFW82, CIJ<sup>+</sup>10, CN71, CNH73, CLH<sup>+</sup>16, DH69, Gri69, Hip70, Kob71, KdAC<sup>+</sup>15, KBC<sup>+</sup>03, Mar98, MZS<sup>+</sup>03, NMH<sup>+</sup>07, OCT68, Peh69, SPR<sup>+</sup>95, Tal20, TR77, Ung72, GH96]. **Digital-Indexed** [KHKM64]. **Digital-to-analog** [HB73]. **Dijkstra** [FvGGM90]. **dilemma** [HHH04]. **Dilute** [CJT62, HB74, Jon60, Sou64]. **Dimension** [MM94, ODA03, Thi88]. **Dimension-independent** [MM94]. **Dimensional** [AW76, Blu79a, Bog79, BRR79, CW85, CHS82, Erd88, Far83, FF73, Gau77a, GHP<sup>+</sup>85, Gro76, KO69b, KO70, KW83, LC80, OHM<sup>+</sup>85, Pim76, Thu60, Wym57, Zwe65, ABG<sup>+</sup>95, BMPS91, BS91, Gam72, Her72, KM68, KAD<sup>+</sup>08, Mar71, MN03, MS89, Nef90, Sto91, TLS<sup>+</sup>06, Tu90, YR91]. **Dimensionality** [Az88]. **Dimensions** [CGR88, AO01, Sho04, Yet89]. **Diode** [AO60, AFR62, CPZ63, Esa62, IBC64, MT64, Rut59, AA71, Mos61, Spr71]. **Diodes** [BLB<sup>+</sup>63, HA58, LDDB63, Mar60b, MWN63, NM62, Pea69, Rut64, Wei65, CA01, HC69, HP01]. **Dioxide** [BBKW86, Moh70, SBdF64, CKG<sup>+</sup>99, PW68, WNV<sup>+</sup>02]. **Dipoles** [SC88]. **Direct** [AR87, BA62, ELMR77, FC79, Fre67, Hun59, KWT<sup>+</sup>11, KP63, MHS62, Sit71, Wal58, Wel61, BSRM09, CASP91, LBT99, Rai69, RFB<sup>+</sup>03]. **direct-conversion** [RFB<sup>+</sup>03]. **Direct-Reading** [Wal58]. **directCell** [PBK<sup>+</sup>09]. **Directed** [Low78, Hei94, HW72]. **Direction** [Kum65, RR83, Wid67]. **Directional** [Bla63, CSY79, GRT74]. **Directionality** [BLB<sup>+</sup>63, LDDB63]. **Directions** [Hor00, AR98, BYY98, MDB<sup>+</sup>02, SP90]. **Director** [GLOS92, RKM02, Ros03]. **Directory** [BCKK92]. **disabilities**

[CGM<sup>+</sup>15a]. **Disaster** [Ano20d, PWW13, Tal20, AAF<sup>+</sup>09, AEG<sup>+</sup>20, BGS13, BWK20, CCE<sup>+</sup>20, DB20, GBJ<sup>+</sup>08, MNWH20, PL20, RVT<sup>+</sup>13, SPB<sup>+</sup>17, SS20]. **disaster-recovery** [BGS13]. **disasters** [KM20, TPTH20]. **Discharge** [LS78, Pen79, RP78, SS78, BCCK92, SBG<sup>+</sup>71]. **Discharges** [KM70, KM00]. **discontinuities** [PM72]. **Discontinuity** [Che64]. **discontinuous** [MM75b]. **discounts** [SMSC14]. **discoveries** [PMS<sup>+</sup>08]. **Discovery** [Cor18, MIL<sup>+</sup>18, MDMN10, BBC<sup>+</sup>12a, CRAG18, CTD<sup>+</sup>16, Koe18, MDJV08, MBT19, PTRC16, PK18, SNP06, STW<sup>+</sup>08]. **Discrete** [Fra82, Lik88, MT77, BGK62, Gre59, NQ78]. **Discrimination** [Bla88, FXL01]. **discussions** [RK15]. **disease** [PAH<sup>+</sup>18, PCW<sup>+</sup>17]. **Diseases** [FE75, CXZ<sup>+</sup>17]. **Disjunctive** [(Ga57, Rai69)]. **Disk** [Ada80, BT78, BFT79, BBT85, CM74, Coo90, DB82, Hea76, Hoa61, How84, JHH<sup>+</sup>81, Len74, MR79, Mul74, MT81, ND57, Osw74, SW74, Adl87, AFF96, BCT89, BE03, Dec90, FMPS93, HDBR08, HBP<sup>+</sup>81, Hoa00, HHA93, HS04, Jon72, McN94, ND00, Ono93, Pat89, Sch96a, SPR<sup>+</sup>95]. **Diskette** [DB82, Eng81]. **Dislocation** [BA62, IM60, JD66]. **Dislocation-Induced** [JD66]. **Dislocations** [DH61, MB75, MKP73, FMS<sup>+</sup>92]. **disorder** [Haa70, HHB<sup>+</sup>89]. **Disordered** [Pen88, Was88]. **Disorders** [Ins77]. **disparate** [BL15, SSY12]. **dispatch** [ET69]. **Dispatching** [And73]. **Dispersion** [KHBC66, YWWK64, PL73, Shi72, WL73]. **Dispersive** [Hua79]. **Displacement** [Che64, Sko58, ESS<sup>+</sup>20]. **displacements** [CMR72]. **Display** [AS78, DSW63, Far83, FLCB85, GBS<sup>+</sup>87, Lan74, LS78, MLGD84, McG92, OPR<sup>+</sup>78, San83b, AN98, ARM<sup>+</sup>01, CAW<sup>+</sup>98, DSRC98, How92, LCL<sup>+</sup>98, NSOO98]. **Displaying** [BBPS91]. **Displays** [BJS80, DC82, SW98, SS78, APOI92, AIH<sup>+</sup>98, KFYU92, LL98, RDD<sup>+</sup>98, SST<sup>+</sup>98, TSH92, TCCH98, WR00, WWA<sup>+</sup>98]. **disposal** [Fre72]. **dispositioning** [BKP82]. **Dissimilar** [BBT60]. **Dissipation** [KL70a, Las61]. **dissipationless** [BZ06b]. **Dissolution** [Ito01, TO77, Dat93]. **Distance** [DPR86, Mar61, Pat70, Mac60, Nef90]. **distances** [HW72]. **Distillation** [Bil70, Bil72]. **Distortion** [ELMR77, Fal70, SFH65]. **Distributed** [BHW<sup>+</sup>17, CMW92, MW82, RC17, ABE<sup>+</sup>02, AGZ94b, CN94, DP13, HG14, KCML13, MDJV08, MN97, NG17, VRA<sup>+</sup>09]. **distributed-memory** [AGZ94b]. **Distribution** [CL74, Don81, KO65a, NB61a, NB61b, Ree69, Sak79, Duk90, ESM16, Hos94, HS71, Jon72, MWW<sup>+</sup>07, Pai72, RWP16]. **Distributions** [FL59, Sta85b, Sta86, SST69, AKKJ72, BTWY92, KMK68, KO69a, Sta73]. **Disturbances** [Sat63]. **Divalent** [SS61]. **diverging** [PH81]. **Diversified** [Kuh88]. **diversity** [BM96]. **Divider** [KP59]. **Division** [CM80, HP84b, Meg62, Thr65, Age04, Age05, Age08, Che06, Che08, NRD<sup>+</sup>09, Ros03]. **Divisors** [Erd59]. **DNA** [Cle81, Pic87]. **DNS** [SJW<sup>+</sup>16]. **do** [ESS<sup>+</sup>20, Rus04]. **Document** [Cha87, CMP87, Cla79, KCML13, Mar98, YAH<sup>+</sup>96, ZY72, WCW82]. **Documenting** [Wri83]. **documents** [FKGF12]. **DOD** [SBT87]. **Domain** [BB60, Cam57, DKAC67, Fre79, GS70, Gor65, Gun66a, Gun66b, Gun69, Hut74, MMT60, Mid65, Mid66, PW67, Sch75, Slo66, Spe69, Aas70, BK76, CCG73, JC00, Pes71, Wor06, van89]. **Domain-Wall** [Slo66]. **Domains** [MS87, MSW69, SN87]. **Donor** [Kau81]. **Donors** [FPS66, PF66]. **Dopants** [AS78]. **Doped** [BA62, CL74, SH69, WB70,



ABK89, SKEG<sup>+98</sup>, YTF<sup>+11</sup>]. **Doping** [ADH70, Sou64, AdH00b]. **dot** [ZH89]. **Double** [MM75a, Mel60a, Mid65, SB64, WS75, LKFU05]. **Double-Boron-Implanted** [WS75]. **Doublers** [RP66]. **Doubling** [Mar59]. **down** [Man90, Now02]. **Drain** [GS80]. **DRAM** [ADG<sup>+95</sup>, BDN<sup>+02</sup>, Del08, EBD<sup>+95</sup>, FKOP90, FCE<sup>+15</sup>, IBP<sup>+05</sup>, IFB<sup>+11</sup>, KBS<sup>+99</sup>, MDB<sup>+02</sup>, SHDK95]. **drawer** [BHH<sup>+15</sup>, CAC<sup>+13</sup>]. **Drift** [vS57, MWX<sup>+17</sup>]. **Drilling** [Wre83]. **Drive** [CDS<sup>+86</sup>, Hel79, Kum65, PRY65, AFF96, BE03, Eng81, FMPS93, Led71, Ono93, SPR<sup>+95</sup>]. **Driven** [Hor62, Lin84, Mou86, Pre66, BW72, BGW91, GBK<sup>+19</sup>, KRS<sup>+17</sup>, MDJV08, Pon17, SLC<sup>+97</sup>, TSH92, TWM<sup>+14</sup>, TPTH20]. **driver** [ADH<sup>+00a</sup>, DTTK95, MVI<sup>+07</sup>, NSOO98]. **Drives** [BBT85, ILH03, Sch96a]. **Driving** [DYK10, KSK98]. **Drop** [BT84, FBW77, Fro84, Lee74, LMT84, Pim76, SBT87, Twa77]. **Drop-On-Demand** [BT84, Fro84, LMT84]. **Droplet** [PL77, KRC68, TZZ<sup>+11</sup>]. **Drug** [Cor18, MIL<sup>+18</sup>, CRAG18, Koe18, PMS<sup>+08</sup>, PK18, SNP06, SLZL18]. **drum** [LC83]. **Dry** [AGLM85, Hsi99, OR92]. **DS8880** [CHJ<sup>+18</sup>]. **DTP** [GZM92]. **Dual** [GZM92]. **Dual-tapered-piston** [GZM92]. **Duality** [Dor60, Joh87]. **Due** [ASV76, Lan88, BS71a, Lan57, Lan96, Lan00b]. **During** [CW77, Dav77, Gil79, KWJJ84, MJS70, PR65, Zab77, BCT89, DR93, GK60, SMVK90, TZZ<sup>+11</sup>]. **DUV** [ATW97, HMH97]. **Dy** [YTF<sup>+11</sup>]. **Dy-doped** [YTF<sup>+11</sup>]. **Dye** [SCHL66, SL66, SL67]. **Dyes** [Lew78b, Mer78, SLHM67]. **Dynamic** [ALL77, BW72, CHY92, DS70, ELZ79, Gha75a, HHM66, LST80, McA83, MWL<sup>+14</sup>, MN97, PH65, Rei66, SWD74, SM63, Tro80, WT77, Woo75, el 69, BJM<sup>+06</sup>, BGL07, BL15, GLOS92, Lar80, MDB<sup>+02</sup>, MWW<sup>+07</sup>, MS07, OD17]. **Dynamical** [Kra81, Lan85, CHG04]. **Dynamics** [BBT85, Dah67, Fro84, HA71, MW62, AHK<sup>+18</sup>, ACM01, ABM<sup>+01</sup>, BKB76, BCT89, BMPS91, BBK<sup>+08</sup>, Bru76, ESM16, EFG<sup>+05</sup>, FMPS93, Gyg08, KHZ<sup>+08</sup>, Las61, LR79, MN03, PZGL91, SPP<sup>+05</sup>, TWRW89, TZZ<sup>+11</sup>, WNB91, ZEH<sup>+08</sup>, ZHP<sup>+18</sup>]. **E-Beam** [Gil84, PW78]. **e-commerce** [HRZ14]. **E.** [LFR05, VLKW14]. **EagleEye** [ZBG<sup>+10</sup>]. **Early** [ABB<sup>+13</sup>, BBH<sup>+81</sup>, DBB<sup>+02</sup>, GZE<sup>+05</sup>, Gol87, Mou86, Spi93, WSJ<sup>+19</sup>, BBS<sup>+03</sup>, EFR<sup>+05</sup>, ITS<sup>+15</sup>, Smo04, SPP<sup>+05</sup>]. **early-stage** [BBS<sup>+03</sup>]. **Earth** [WA79, Ber76b, KW76]. **earthquake** [NCM<sup>+01</sup>]. **easier** [MBF<sup>+13</sup>, PBBL07]. **easy** [SBF<sup>+97</sup>]. **Ebola** [BMF<sup>+16</sup>]. **EC12** [CAC<sup>+13</sup>]. **echo** [CN71]. **Echoes** [Hor57]. **ECL** [DMR<sup>+81</sup>]. **ecology** [PW72]. **Economic** [Agi74, El 74, KRS<sup>+17</sup>]. **ecospace** [LHS<sup>+17</sup>]. **ecosystem** [DKR12, GW18]. **Eddy** [Dui59]. **Edge** [BB60, LMD70, WB70]. **Editor** [And60, Ano05b, BC60b, BBT60, BB60, BD62, Bre60, BA62, BLB<sup>+63</sup>, BN63, Car60, COC61, Con60, Cow87, CK63, Dam66, Die62, Dod63, Dum63, FMP61, FK62, FC63, Has62, IM60, Ken61a, Key61b, KW62, KKK61, KP63, Kru84, Ku63, Kue60, LDDB63, Le 62, Lei62, MW62, MVB62, Mar60b, Mat62b, MS60a, MP61, Mel60a, MWN63, MHS62, MG63b, NM62, ON60, Pal61, Par60, PK61, Rad62, Sch67, Seg62, Smi60, SB62, SS61, Tid62, Tit63, WKW60, Yu61, Ano01b, SPS<sup>+06</sup>]. **eDRAM** [MS05]. **Edsger** [FvGGM90]. **Educational** [BNS15, NNF15, CR15, VRA<sup>+09</sup>]. **EEG** [Boh73, MYKK<sup>+17</sup>]. **EEPROM** [Nii95]. **Effect** [AS78, Azb88, BTW62, BJMO80, CFH64, DS70, DH57, FLW78, FFH64, Gun66a, JJ64, KO69b, KO70, Ker64, Kus70,

MW62, MFPJ71, MU77, Mat62b, Nai02, PS80, Phi78, Pri57a, Pri58a, TT75, TH64, Twa77, WWMS79, Wol70, ZZ69, CDS73, CDS00, KM73, Lan60, LJ92, Tan08, vK62]. **Effective** [CDG<sup>+10</sup>, DYK10, KO65b, SBR64, DFNNS17, GMX14, Gup97, HBC<sup>+99</sup>, KBA07]. **Effectiveness** [RP70, TBH<sup>+17</sup>, BM96, MDH<sup>+12</sup>, SXYP12]. **Effects** [AOR62, BB60, BBF<sup>+05</sup>, BLB<sup>+63</sup>, Cle81, Col62, CC76a, Cre58, CGHK77, DS77, FK60, Gae79, GM62, GS70, HM89, KSW74, LDDB63, Leh64, MG68, MNP<sup>+69</sup>, Mei62, Mid70b, Par80, PL73, PFS<sup>+70</sup>, RK66, Ree59, SM62, Sta85b, Swa57, TH64, Vui64, YS64, ALH95, GC68, Gou89, GSAB93, GDR70, LBT99, Lud00, MRH89, MNS69, MMJ69, NBF<sup>+16</sup>, NBF<sup>+00</sup>, RBK<sup>+08</sup>, SNM69, TMF<sup>+08</sup>]. **Efficiencies** [HRF<sup>+17</sup>, Jam89]. **Efficiency** [Ano05c, DSRC98, DMN<sup>+59</sup>, Mar59, RP66, SJK70, BR09b, GKT17, HvKI<sup>+09</sup>, KDG15, KDT18, KTD20, MMM<sup>+05</sup>, MI10, MS89, WYF<sup>+03</sup>]. **Efficient** [AAB<sup>+14</sup>, GRS13, HL72, Jur78, KR87, Luk74, SFH65, SS87b, Tom67, BTP<sup>+90</sup>, vBBE<sup>+02</sup>, GMX14, JWSP06, MC87, NDM<sup>+04</sup>, NCB03]. **effluents** [Shi72]. **effort** [DBC<sup>+06</sup>]. **eFUSE** [RFC<sup>+07</sup>]. **eHealth** [AAJ14]. **eigenfunctions** [HM89]. **Eigenproblem** [Dub72]. **eigenvalues** [CW58, FW67, HM89]. **EL1** [Dav80]. **Elastic** [AW62, BP88, Che64, CS65a, CF72, Key61a, Kur87, Sat63, BEH<sup>+89</sup>, EHK<sup>+89</sup>, FL89, Jan69, LC83, Tap82]. **elastic-plastic** [CF72]. **Elastohydrodynamic** [VG74]. **Elastomeric** [Smi77]. **elder** [TOKN18]. **elder-care** [TOKN18]. **Elderly** [PL20]. **Electric** [DH57, MR76b, DXZS13, GAJ<sup>+16</sup>, HZG<sup>+16</sup>, KAD<sup>+16</sup>, SLK<sup>+16</sup>, TCP<sup>+16</sup>]. **Electrical** [BRB92, BJMO80, But88b, Cha88, Dav82, DDA<sup>+93</sup>, Gun66b, HM60, KP79, OPR<sup>+78</sup>, OMAW60, Rue79, SD85, SGC<sup>+87</sup>, Wee79, ALH95, BPG<sup>+16</sup>, BS71a, BBMP92, Bra68, CNC<sup>+08</sup>, DHK<sup>+92</sup>, DAS<sup>+94</sup>, HSL<sup>+10</sup>, Hei90, MKW<sup>+05</sup>, Mat70, RWP16]. **electrical-conductivity** [CNC<sup>+08</sup>]. **Electrically** [BMW83]. **electricity** [WAC<sup>+16</sup>]. **Electro** [SH63, Wie90]. **Electro-optic** [Wie90]. **Electro-Optical** [SH63]. **Electrochemical** [BMW83, Hor93, KM93, KRT98, SBdF64, Swa57, WDA05, vS98, Dat98a, Dat98b, RWM<sup>+05</sup>]. **Electrochemically** [DH83, SF93]. **Electrode** [CL64, RL70, DR93, DVM81, Sek93]. **electrode-electrolyte** [Sek93]. **Electrodeposition** [LR65a, DKA<sup>+05</sup>, Duk90, Duk93]. **Electrodes** [DK79, Jon72]. **electroerosion** [CP91, CAS<sup>+91</sup>, CASP91, Pen91]. **Electroless** [BLR84, BRA84, HSM84, JK93, KWJJ84, GB93, OHWR88]. **Electrolessly** [OSP<sup>+98</sup>]. **electroluminescence** [ARM<sup>+01</sup>]. **Electroluminescent** [ON60]. **electrolysis** [DR93]. **electrolyte** [Sek93]. **Electromagnetic** [Dum63, Bus71, Dav69, Pau89, PL73, Rub90]. **electromechanics** [NNN<sup>+06</sup>]. **Electromigration** [ADH70, HRS<sup>+95</sup>, SC88, Ver88, AdH00b, SD71]. **Electron** [Azb88, BGK<sup>+82</sup>, Bro88, CSE66, CW78, Col62, DO74, DMWW77, Dav80, DEG<sup>+01</sup>, ELMR77, GSVE83, GOJN77, GWRS90, GHP<sup>+93</sup>, HG83, HWC88, Hor62, Jon65, Jon70, Kra81, KP59, Kue60, KM74, KP80, Lin67, MTH71, MW80a, MJJ69, MPS77, MNP<sup>+69</sup>, MP67, NM62, Par80, PS80, Ree69, RS69, SSN<sup>+62</sup>, SG64, WPH69, YDHS78, All00, ALH95, CHL<sup>+11</sup>, DG93, FKOP90, FA70, HF90, KBF<sup>+92</sup>, Lud00, MAG<sup>+01</sup>, MHK<sup>+11</sup>, PGN88, Ros00, SKB<sup>+11</sup>, Tro00a, TTI98, VWJK11, WSBL90]. **Electron-Beam** [Bro88, DMWW77, Dav80, ELMR77, HWC88, Hor62, KP59, KP80, MW80a, MPS77, PS80, BGK<sup>+82</sup>, GWRS90, FKOP90, MAG<sup>+01</sup>, PGN88]. **Electron-Hole** [RS69]. **Electron-Transparent** [DO74].

**electron-yield** [CHL<sup>+</sup>11].  
**Electronegativity** [Mic78]. **Electronic** [BW81a, BHH<sup>+</sup>15, FNRF89, FWW88, Fre70, HJS98, KJ86, Key61a, Kog57, Kog58b, Kog58a, Kog59, KT84, Lan86, Lud78, Rey69, SF81, Sie70, SC88, SBC<sup>+</sup>12, WR00, AN98, Kit89, PBC<sup>+</sup>04, PK88, RR69, SJMBK08, TBB<sup>+</sup>09]. **Electronics** [Key88, Key00, MCK01, SS01, ZCM<sup>+</sup>96].  
**Electrons** [Hon70, Lik88, Pri59, Pri65, Pri70].  
**Electrophotographic** [BS84a, Bau84, Bro78, CEY84, EHMW81, SSL73, VW78, SBG<sup>+</sup>71, Sta97].  
**Electrophotography** [LAG<sup>+</sup>84, TB82, Tu75, Sch71].  
**Electroplated** [Ros78, Smi60, AR98, CBH<sup>+</sup>05].  
**electroplating** [AUD<sup>+</sup>98, HHA93, Hor98].  
**Electropositive** [KJSG<sup>+</sup>88]. **Electrostatic** [AEE77, FBW77, Fit57, Sch62a, Twa77, KWN01]. **Element** [BRR79, BCGS81, DW58, GLS67, SSW65, Zab79, AEH<sup>+</sup>04, BSHM01, BCGS00, Cor93, JL90, KL97, KN91b, VWE02, You90].  
**Elementary** [ACG<sup>+</sup>86, Co062, CLW79, Erd59, ACG<sup>+</sup>87, Mar90]. **Elements** [DMN<sup>+</sup>59, Hoh78, RP67, SLLP64, HMOS81, HMO81, Okl03, van89]. **eliminate** [MVI<sup>+</sup>07]. **Elimination** [Gab70].  
**Ellipsoidal** [NGMW57]. **ellipsoids** [Bar82].  
**ellipsometer** [HD73]. **Elliptic** [Par67, Wid67]. **Embedded** [BDN<sup>+</sup>02, IBP<sup>+</sup>05, AKG<sup>+</sup>19, CT06, FCE<sup>+</sup>15, Hui90, IFB<sup>+</sup>11, VTMB<sup>+</sup>90].  
**Embedding** [HJ94, Irv01, AKB<sup>+</sup>17]. **embeddings** [BHW<sup>+</sup>17]. **Embodied** [BS84a]. **embrace** [DDDKW12].  
**Emergencies** [ESS<sup>+</sup>20]. **emergency** [SLK<sup>+</sup>16, VAB<sup>+</sup>13]. **Emerging** [HST06, LPA<sup>+</sup>15, Tro00b, SGEsr10].  
**emerging-market** [SGESR10]. **Emission** [AC63, BN63, FP69, Gli69, MJS70, Mor79, RS69, SA66, SB64, SCHL66, SL66, SLHM67, SAL63, BSRM09, GRH<sup>+</sup>08, KWT<sup>+</sup>11, Lud00, MHW95, TK69, Tur69, VWJK11].  
**emissivity** [Bra72b]. **Emitter** [Phi78, SGC<sup>+</sup>87, GOVC71]. **Emitting** [BLB<sup>+</sup>63, Dum63, LDDDB63, MWN63, CA01, FPS66, HP01, RRB<sup>+</sup>01]. **Empirical** [SS87b]. **Empirically** [LS73]. **Employing** [HA58, GB93]. **Emptive** [And73]. **Empty** [Ort84]. **emulation** [Mey81, RT99]. **enable** [HMP<sup>+</sup>11, JGD<sup>+</sup>08]. **enabled** [BBD<sup>+</sup>98, DDDKW12, Vay12]. **enablement** [MLWC20, SSI<sup>+</sup>18]. **enabler** [CDS<sup>+</sup>19]. **enablers** [vKCD<sup>+</sup>10]. **Enabling** [AUW<sup>+</sup>09, CLP<sup>+</sup>13b, JSM<sup>+</sup>18, RSS<sup>+</sup>15, RWP16, SM16, SSY12, TPC<sup>+</sup>13, TCP<sup>+</sup>16, WBS<sup>+</sup>18, DSZ<sup>+</sup>12, Koe18]. **encapsulated** [Pai72]. **Encapsulation** [VGC79]. **encoders** [BNW99]. **Encoding** [BK74, KLS66, Pat75, Luh57, WRG99].  
**Encrypted** [VPS88]. **Encryption** [Cop94, ACD<sup>+</sup>15, BC18, CJM96, JSM<sup>+</sup>18]. **encryption-based** [BC18]. **End** [HRF<sup>+</sup>17, SCHL66, Tay81, ARS<sup>+</sup>17, Lip92b, MDJV08, PGS<sup>+</sup>98, RRMD17, SN02].  
**End-Pumped** [SCHL66]. **End-to-end** [HRF<sup>+</sup>17, ARS<sup>+</sup>17, MDJV08, RRMD17].  
**Endocrinology** [SLG78]. **Endorsement** [MBT19]. **Endpoint** [DHC20, THL85].  
**Energetics** [HB74]. **energies** [Tu90].  
**Energy** [DKAC67, DHM75, Dou62, Fla81, Goo62, Hua79, Jon65, Jon70, Jur78, KL70a, KDG15, LS64, MJJ69, McC64, Mei62, NGMW57, RP66, SCYK78, Tin62, vHv<sup>+</sup>89, ABB<sup>+</sup>12b, Bar86, BSRM09, BR09b, CNL<sup>+</sup>19, CHL<sup>+</sup>11, Cop00a, EHLSW01, FNRF89, FWR<sup>+</sup>11, FRS<sup>+</sup>18, HvKI<sup>+</sup>09, HZB<sup>+</sup>06, KLHW16, KAF<sup>+</sup>16, KDT18, KTD20, MHK<sup>+</sup>11, NCB03, RES<sup>+</sup>15, RMM03, SKB<sup>+</sup>11, SD71, SFH<sup>+</sup>16, Tro00a, ZCK71, ZFD<sup>+</sup>15].  
**energy-efficiency** [BR09b, HvKI<sup>+</sup>09].  
**Energy-Efficient** [Jur78, NCB03].  
**energy-filtered** [CHL<sup>+</sup>11].  
**energy-management** [FWR<sup>+</sup>11].

**EnergyScale** [MBF<sup>+07</sup>]. **engagement** [HRS07]. **engagements** [BEJ<sup>+14</sup>, RWB<sup>+10</sup>]. **engaging** [SN15]. **engendered** [PH81]. **Engine** [BBHS84, CRDI07, BCK13, EK08, Mar98, BDHH<sup>+09</sup>, JB07, LJV<sup>+07</sup>, PBBL07, RWW07, RG09, SHL07]. **engineer** [ET69]. **Engineering** [KS90, LKL<sup>+81</sup>, Mul74, VAB<sup>+13</sup>, ABR71, CCFSZ12, KLRS96, SNP06]. **engineers** [GR92]. **English** [Bla88]. **Enhanced** [Chu82, OHK<sup>+07</sup>, PS80, Sar91b, vAR82, GW18, SC20, vS98]. **Enhancement** [EL83, FT80, WS75, LV94, LMW<sup>+01</sup>, Sta97]. **Enhancement-Mode** [WS75]. **Enhancements** [GSC80, ADH<sup>+07</sup>, BWB<sup>+18</sup>]. **enhancing** [JDBP10, SMP<sup>+04</sup>]. **ensembles** [CNP<sup>+17</sup>]. **entanglement** [Ter04]. **Enterprise** [ABC<sup>+99b</sup>, ADG<sup>+92a</sup>, ABD<sup>+92</sup>, BBGE<sup>+14</sup>, BEM<sup>+92</sup>, BBMP92, BRB92, BGJ<sup>+17</sup>, CTS<sup>+92</sup>, CDM92, Cov92, CW91, DHK<sup>+92</sup>, DSM<sup>+99</sup>, DGG<sup>+92</sup>, DGL<sup>+97</sup>, ECD<sup>+99</sup>, ES92, FGC92, GGRW91, GLOS92, GZM92, Haj91, HOWP92, IMSV10, KRTN<sup>+12</sup>, Lip92b, RGP<sup>+97</sup>, RCP<sup>+16</sup>, RHM<sup>+99</sup>, San12, Sar91b, SSW91, SSM97, SCC<sup>+97</sup>, SWC<sup>+97</sup>, SV91, SG99, TBB<sup>+09</sup>, TSC91, UDP<sup>+12</sup>, WMH<sup>+97</sup>, WHK<sup>+09</sup>, AAB<sup>+10</sup>, AYA14, BGLM09, Car10, CJK<sup>+13</sup>, DSZ<sup>+12</sup>, DHC20, FM10, FGG<sup>+13</sup>, HRF<sup>+17</sup>, HBT<sup>+16</sup>, JSS13, SM16, SLC09, SMC<sup>+14</sup>, SBC<sup>+12</sup>, VNT16, vKCD<sup>+10</sup>, CdLS92, NHH91, SY92]. **enterprise-class** [SM16, SBC<sup>+12</sup>]. **enterprise-level** [SM16]. **entire** [OIM<sup>+13</sup>]. **entities** [Coo18]. **entitlement** [CHM<sup>+16</sup>, ST17]. **Entity** [CA84, ST17, ZBG<sup>+10</sup>]. **Entity-centric** [ZBG<sup>+10</sup>]. **Entity-Relationship** [CA84]. **Entrance** [Fis88]. **Entropy** [Bar80]. **Enumeration** [Rio60, Mic72]. **Enveloping** [Mir72]. **Environment** [Bar73, Dub72, Fla81, MW82, Wie58, AHH<sup>+91</sup>, ATW97, AHM<sup>+07</sup>, BC00, BOS<sup>+95</sup>, CDSW06, CN94, DM03, DOJ<sup>+14</sup>,

GHL<sup>+04</sup>, GBB<sup>+05a</sup>, KN91a, MAA<sup>+05</sup>, MME<sup>+97</sup>, ODL<sup>+09</sup>, Okl03, OEN<sup>+16</sup>, PZGL91, Rue72, VMG99, WNB91]. **environmental** [KCH<sup>+09</sup>, KDG15, ODL<sup>+09</sup>, OB09, SCW10]. **environments** [AAB<sup>+14</sup>, AAS<sup>+14</sup>, BMS<sup>+17</sup>, BBG<sup>+14</sup>, Elg11, FHL<sup>+14</sup>, KR<sup>+14</sup>, LBC<sup>+14</sup>, RCFN<sup>+08</sup>, VDO14, VMS<sup>+14</sup>]. **Epitaxial** [GK60, Mar60a, WKW60, GSG<sup>+90</sup>, GBBM90, SLYR72, SGT78]. **Epitaxially** [IM60]. **epitaxy** [CWC95, Far98, GI88, Mar79, Mey90, Mey00a, Tis90]. **Epoxy** [MLSS84, MVK85, KS01]. **Epoxy-Glass** [MLSS84, MVK85]. **equal** [MR14]. **Equalization** [God74, Gor65, Mil83, Sch85]. **equalizers** [Kar73, ST72, Ung72]. **Equation** [CS65b, Fla65, Lev66, Mil67, Mir60, Ode64, Tof88, vS57, BSHM01, CP72, Can73, HM89, HBW70, KRC68, Mic59, Mir61, Pri66, Sug59, Swi62]. **Equations** [Ano67g, Ano67u, Bil70, Bre72, Gar88, Her66, Lan85, Par67, Bil72, Bra72a, CFL67, Dan66, FW67, Ger73, Lax67, LO72, Mos61, Whi72, Wid67]. **Equilibria** [Sha58a, CJ78b]. **Equilibrium** [Lev64]. **Equipment** [KFSZ92, Col69b, CMR72, RWM<sup>+05</sup>]. **Equipment-related** [KFSZ92]. **equitable** [BMS<sup>+17</sup>]. **Equivalence** [Don74, Dur70]. **equivalences** [AO97]. **Equivalent** [BRR79, Dod63, Kah71, Str59, AO01, BDS<sup>+97</sup>]. **Era** [BCS<sup>+18</sup>, ABD<sup>+18</sup>, JDBP10, MWX<sup>+17</sup>, RCP<sup>+16</sup>, Sha02, SSI<sup>+18</sup>]. **Ergodic** [MN03]. **ERMIS** [VSS<sup>+09</sup>]. **Errata** [Ano66k, Ano66j, Ano66l, Ano05c, Ano06b]. **Erratum** [Ano66l, Ano01b, Ano06c, Ano08b, Lan84a]. **Error** [BM63, Bla79, Bos70a, BH82, BS70, CR76, CH84, Gri60, KST58, LT70, Meg60, Mel60a, MG63a, Mou86, OCT68, Pat80, SS59a, TL70, AC84, BSK<sup>+08</sup>, Bos70b, BH80, Dan66, Gor63, KBF<sup>+04</sup>, Mac60, MS96, Pat89, SKK<sup>+08</sup>, Sri96, ZMM<sup>+96</sup>]. **Error-Correcting**

[CH84, Gri60, SS59a, AC84, Mac60].  
**error-correcting/detecting** [AC84].  
**Error-Detection** [BH82]. **Error-Sampled** [KST58]. **Errors** [Dah63, How84, PL81, Pat86, SH57b, SH57c, Wyn64, ZS96, DWW90, Del08, HDBR08, KLHW16, KCOW08, Meg60, Mel60b, ORT<sup>+</sup>96, RBK<sup>+</sup>08, Tan96]. **ES/9000** [Att92]. **ESA** [SV92]. **Esaki** [PR59b, Rut59]. **ESCHER** [SKB<sup>+</sup>11]. **ESCON** [FGC92, CdLS92, ES92, GLOS92]. **eServer** [ABE<sup>+</sup>02, AFM<sup>+</sup>02, BEK<sup>+</sup>02, BHK<sup>+</sup>02, vBBE<sup>+</sup>02, CBB<sup>+</sup>04, CCW<sup>+</sup>02, FCS<sup>+</sup>04, GWS<sup>+</sup>04, GKMP04, GE02, HPW<sup>+</sup>02, HBL<sup>+</sup>02, KKS02, KKM02, PBC<sup>+</sup>04, PVAK02, SCS<sup>+</sup>02, SGK04, SNA02, SAB<sup>+</sup>02, SPM04, SvBC<sup>+</sup>04, SBC<sup>+</sup>02, VWE02, AV04]. **ESPER** [Ono93]. **ESPER-2** [Ono93]. **ESS** [IS20]. **essential** [KKT09, KKS02]. **EST** [DB01]. **establishing** [SJW<sup>+</sup>16]. **esters** [VBM71]. **Estimate** [Gam72]. **estimates** [Hei80]. **Estimating** [WYF<sup>+</sup>03, AP69, Mat03, Sit87]. **Estimation** [Bar80, Lin67, Mil83, Wel61, DB01, GYK99, Goz94, PTRC16, PM88]. **estimations** [Sta89a]. **estimators** [Sta73]. **estuary** [KCH<sup>+</sup>09]. **ETA** [HD73]. **etch** [PM72]. **Etching** [Chu82, CK79, vAR82, AHW<sup>+</sup>99, Fon99, Hsi99, Koh98, Kuo92, MSG72, OR92, ODK<sup>+</sup>99, RKL88b]. **Ethane** [Win78]. **Ethernet** [HTH<sup>+</sup>09, OBB<sup>+</sup>05]. **ethical** [BBMR19, NBM<sup>+</sup>19, RDL19]. **Ethics** [Ano19h, Sim19]. **Ethylene** [Blu79a, Dem78]. **EUDOC** [PMS<sup>+</sup>08]. **EuO** [ODR70, PFS<sup>+</sup>70]. **Europe** [Ano89]. **European** [RWP16]. **Europium** [Dim70, Kas70, MVB62, Von70]. **EuS** [PFS<sup>+</sup>70]. **EuSe** [PFS<sup>+</sup>70]. **EuTe** [PFS<sup>+</sup>70]. **evaluate** [CM19]. **Evaluating** [CXZ<sup>+</sup>17, EHLSW01, HS14, TOKN18, vv86a]. **Evaluation** [ÅC64, Far87, HHR99, KGF77, Sch81, TCCH98, AC84, BMF<sup>+</sup>16, BDS<sup>+</sup>97, BMT<sup>+</sup>90, CGH<sup>+</sup>17, Dor62, HL72, KMC<sup>+</sup>11, MPP<sup>+</sup>15, MME<sup>+</sup>97, Ris72, ST89, WG19, ZCK71]. **Evaporable** [OPR<sup>+</sup>78]. **Evaporable-Gas-Dielectric** [OPR<sup>+</sup>78]. **Evaporated** [BBG60, PW78, PBF60]. **evaporation** [TZZ<sup>+</sup>11]. **Evaporators** [Cas60]. **Event** [BFG<sup>+</sup>99, GRH<sup>+</sup>08, Sel07, Tan08, WLH<sup>+</sup>17]. **event-log** [WLH<sup>+</sup>17]. **Events** [AGH<sup>+</sup>16, LS76b, TPC<sup>+</sup>13]. **Everest** [NNMJ01]. **every** [WA15]. **evidence** [MFL<sup>+</sup>12, SvNH13]. **evidence-based** [SvNH13]. **Evoked** [UC62]. **Evolution** [CMR<sup>+</sup>90, DFaDNS98, GAB<sup>+</sup>08, HLS81, IK00, Jam81, JS81, KWJJ84, SF81, SCM<sup>+</sup>82, TJHK03, ADG<sup>+</sup>95, ALS81, BCK<sup>+</sup>05, CS03, CM90, CM00, Gre97, Nai02, ODA03, RGPP95, Ste81]. **Evolutionary** [DBNK<sup>+</sup>17, CFP20]. **Exact** [Mic72, Tak87]. **Examine** [Sch67]. **Example** [Sch67]. **Examples** [OH74, IBM13c]. **exascale** [LSS<sup>+</sup>20, NAB<sup>+</sup>15]. **excellence** [BWT<sup>+</sup>14, DRB<sup>+</sup>20]. **Exception** [GLS74]. **exceptional** [Hof60]. **exceptions** [LS73]. **Exchange** [AAJ14, HP84b, Kas70, KW62, Far98, Jon98, Whi72]. **Excimer** [JWL82]. **Excitation** [LM85, Pre66, SL67, Les71]. **Excited** [GCPVG85, Mor79, ARM<sup>+</sup>01, HDK<sup>+</sup>11]. **Exclusion** [BCH84]. **Exclusive** [FTY83]. **Exclusive-OR** [FTY83]. **executables** [Hei94]. **Execution** [BBB<sup>+</sup>20, CJ91, FH84, Tay79, WF87, APRS16, AEGP67, Gsc09, HM90, HHH86, MHR90, OWG<sup>+</sup>13, SSW91, SZ91]. **Executives** [NNF15]. **exemplified** [Pig88]. **Exhaustive** [TC84]. **Existence** [Bil72, LKY80, Ode64]. **Exit** [Fis88, Mas97]. **expanded** [FXL01]. **Expanding** [BL62]. **Expansion** [AFP<sup>+</sup>01, SAPT01, TFR<sup>+</sup>01, BAB<sup>+</sup>13, HSL<sup>+</sup>05, Jan69, Lew73]. **expediting** [ST17]. **Experience** [BCC<sup>+</sup>01, Ris84, JS14, LSS<sup>+</sup>20]. **experiences** [ABB<sup>+</sup>13, WSJ<sup>+</sup>19]. **Experiment** [BTW62, Bax58, Bla88, Dam66, DLK84, SBT87, ADG<sup>+</sup>92b, Nic92].

**Experimental** [BBT79, BFT79, BT84, BBT85, CSW73, CLOR87, CD85, CK63, DLW86, FGM<sup>+</sup>83, Hop59, Hor62, Mar71, Men62, Ris84, RS59b, SHWK<sup>+</sup>90, SLHM67, TSNF88, WRLA57, ZCK71, BF69, Kel73, LD72, Rei69, Smo04, ACF<sup>+</sup>80, BHHO59].  
**Experimenting** [EO13]. **Experiments** [ALL77, Ben59, Hat72, KT66, LR65b, ST75, Sch81, Gra71, JN82, Kel89, SG71, ZCM<sup>+</sup>96].  
**Expert** [DLW86, ADG<sup>+</sup>92b, EGH<sup>+</sup>86].  
**expertise** [CCE<sup>+</sup>20]. **Explaining** [CHdTG92]. **Explanations** [Gli69]. **explicit** [VRL10]. **Exploitation** [BIK<sup>+</sup>05, SSMGD10, CBB<sup>+</sup>05, MMS05, Sur15].  
**Exploiting** [AGZ94a, FNY<sup>+</sup>10, LDSY91, Tom67, Wee79].  
**exploration** [Kan15]. **Exploratory** [GLP76, PBC<sup>+</sup>06]. **Exploring** [EHPS05].  
**exponential** [Moo72]. **Exponentials** [Che72]. **exposed** [LG88]. **Exposure** [Ahu80, BT67, ELMR77, HHSW01].  
**Express** [BEE<sup>+</sup>02, GCS<sup>+</sup>12]. **Expressions** [BDH83, Hal76]. **Extended** [CDG83, Gum83, Ort84, Pad83, LT95, SMS80].  
**Extending** [MG63a, HMK01]. **extensible** [BDH<sup>+</sup>19]. **Extension** [Koc59, Llo67, Cal70, Lam77a, Pri66, TS69].  
**extensions** [CPT<sup>+</sup>08, Cra98, Wai05].  
**External** [AA18]. **Extracting** [ZW17].  
**Extraction** [WR83, AAA<sup>+</sup>17, DF15, EKTT90, FKGF12, TWM<sup>+</sup>14, WKF<sup>+</sup>12].  
**Extrapolation** [Gaz78]. **eXtreme** [BBE<sup>+</sup>13]. **Extremely** [RVV88, MFPJ71].  
**Extrinsic** [Was88]. **Eye** [RHM63, MG68].  
**F** [LFR05, VLKW14]. **f.e.t** [HD73]. **Fabric** [MBT19, IJV19, BHH19]. **Fabricated** [BBC<sup>+</sup>64, O'H78]. **fabricating** [SLYR72].  
**Fabrication** [Ame80, ATW<sup>+</sup>08, BHV85, BMWL80, BCRW82, GKK<sup>+</sup>80, Hat88, HWC88, Hsi99, MHI98, Mid70a, PW78, RHM63, Spr71, CAS<sup>+</sup>91, Dha68, FCH70, KFSZ92, KRT98, KOT99, LCHL95, MTH71, Mar71, MAD<sup>+</sup>98, RK72, TW69, TFL<sup>+</sup>98, ZCK71]. **Fabry** [Fan64]. **Facilitating** [SXYP12]. **Facilities** [Gum83, LG78, CMR<sup>+</sup>90, LS69]. **Facility** [AMG<sup>+</sup>87, GAC85, Lom80, Mul74, LL93, SdS89, AC86, GRSW86, JMLW94, RV89, SRO93, SV91, SY92, Sur15]. **Fact** [KPB<sup>+</sup>12]. **Fact-based** [KPB<sup>+</sup>12]. **Factor** [Bre60, Gia66, Hun59, CLP<sup>+</sup>13a, SBR64]. **Factoring** [Bra87]. **factorization** [EG00, GJ00, Tue68]. **Factors** [CK63, Dav79]. **FactSheets** [ABH<sup>+</sup>19]. **fails** [DFE<sup>+</sup>15, ZCM<sup>+</sup>96]. **Failure** [Bar83, DMP59, TAR84, TT198]. **Failures** [Rot66a]. **fair** [FW83]. **Fairness** [BDH<sup>+</sup>19, SHCV19]. **family** [GR92, WD94]. **Far** [GHW70, GL62, OKH<sup>+</sup>02]. **Far-Infrared** [GHW70, GL62]. **Faraday** [Kus70, ZSZ96]. **Farey** [LT95]. **farmer** [FKOW16]. **Fast** [AEG<sup>+</sup>02, God74, Gup97, HJK<sup>+</sup>01, Jel69, KP59, KHKM64, Mil83, Raa76, CDC96, Cra98, ESI<sup>+</sup>12, GI88, Har71, Won90, Bra94]. **Fast-Switching** [KP59]. **Faster** [WT77]. **Fatigue** [Keh65]. **Fault** [Aic84, BH82, BCH84, BKRF02, CTS<sup>+</sup>92, Com83, Sta84b, Sta85b, Sta86, Sta89a, Cov92, SHL<sup>+</sup>20, SG99, Sta89b, Sta89c, TSC91, CR84]. **Fault-Isolation** [BH82]. **Fault-simulation** [Sta89a]. **Fault-tolerance** [CTS<sup>+</sup>92]. **Fault-Tolerant** [Aic84, Com83, BKRF02, Cov92, SHL<sup>+</sup>20, CR84]. **FCP** [ABE<sup>+</sup>02, SAB<sup>+</sup>07]. **Fe** [LR65a, MMT60, Mid62, Bru78, CW78, LR65a, Mid65, Pes71, YTF<sup>+</sup>11]. **Fe-B** [YTF<sup>+</sup>11]. **Feature** [CJH<sup>+</sup>15, Duk93, FS82, Kur87, BHW<sup>+</sup>17, TWM<sup>+</sup>14]. **Feature-scale** [Duk93]. **Features** [CMPR64, Gli69, ABD<sup>+</sup>18, BEE<sup>+</sup>02, DHK<sup>+</sup>92, FWR<sup>+</sup>11, HJW<sup>+</sup>16, MPP<sup>+</sup>15, SSN<sup>+</sup>15, SJZ<sup>+</sup>15]. **features-based** [SJZ<sup>+</sup>15]. **featuring** [SRH<sup>+</sup>18]. **Federal** [OO81]. **federated** [RBL<sup>+</sup>09]. **federation** [LNT08, NMV<sup>+</sup>09]. **federation-based** [NMV<sup>+</sup>09]. **FEDSS** [BHV85]. **Feedback** [KT73, Rei66, Cov92,

DRSM15, Gus76a, Gus76b]. **Femtosecond** [TWRW89, MHW95]. **FEMvis** [Bal91]. **Fermat** [Nus76a, Nus77]. **Fermi** [DV64, DM64, Sou64, WS64]. **Ferrite** [BBC<sup>+</sup>64, CM74, Pol78, RRSW61, Sha58a, Tan74, WWLF67]. **Ferrites** [NBRB70, She59b]. **Ferroelectric** [Tri58]. **Ferromagnetic** [THv70, Whi70, Haa70, Vur70]. **Ferromagnetism** [Mat62a, Sui75]. **Ferroresonance** [SH87]. **FET** [BBH82, Gra80, LST80, Mid70a]. **FETs** [KSF90, RG90, SHWK<sup>+</sup>90]. **FFT** [Cve87a]. **FFTs** [EFR<sup>+</sup>05]. **Fiber** [DSM<sup>+</sup>99, ABD<sup>+</sup>92, GLOS92, KACS95, CMW92]. **fiber-optic** [KACS95]. **fibers** [BS06]. **Fibre** [DHC20]. **Field** [AzB88, Boe69, Dou62, DSSS64, DS70, DH57, DPR86, EGS60, FFH64, FK62, Gar86, HBL62, JT66, KO69b, KO70, Kro58, Ku63, LC80, Met70, ORT<sup>+</sup>96, ODR70, PW67, Par60, Ree69, Swe62, Tin62, TH64, Vui64, Whi70, Wol70, BH89, CDS73, CDS00, DAB<sup>+</sup>97, KM73, LJ92, MHW95, Vur70]. **Field-Effect** [KO69b, KO70, Wol70, CDS73, CDS00]. **field-emission** [MHW95]. **Field-Quenching** [Boe69]. **FIELDAY** [BCGS81, BCGS00]. **Fields** [ASV76, Lan88, Dic91, HRWZ87, Lan57, Lan96, Lan00b, Lew73, RE71]. **Fifty** [BS03]. **Figure** [Esa62, Gia66]. **Filaments** [Bar69]. **File** [HP63, Hea76, How84, MT81, ODA<sup>+</sup>08, Osw74, van72, van73a, Bou97, BGW91, Coo90, GA68, HBP<sup>+</sup>81, Has98, JSS13, LNT08, Nii95, vdP72, van73b]. **Files** [BFT79, Len74, WY76, Dec90]. **filled** [FGMPK05]. **Film** [ABPS66, AGLM85, Blu79a, CC76a, CM74, GLS67, GS84, HM60, HCBA82, JT66, KJMS67, Lan85, Log70, MJS70, McG92, Ove70, PH79, PSS67, RK66, AT00, APOI92, AR98, Bag94, BHHO59, CWC95, CF72, CCH<sup>+</sup>96, CPTW98, DM01, Fuj92, Gro59, How92, HRS<sup>+</sup>95, JMM<sup>+</sup>96, KC89, KFYU92, Kuo92, KOT99, Lew78a, LL98, LCL<sup>+</sup>98, LS72, Mic59, MWEJ05, Pat72, PGS<sup>+</sup>98, SLK<sup>+</sup>97, SGS<sup>+</sup>09, TSH92, TCCH98, Tho94, TTI98, TKK<sup>+</sup>92, WWA<sup>+</sup>98, van89]. **Films** [Ahn66, ADH70, BB60, BBG60, BP75, Blu79b, BBT79, Boy60, Buc99a, Cha62, CH76, Coo62, Dav77, DH83, DP59, DPW60, Die62, EGS60, Flu67, Fre62, GM63, JC63, KDBT60, KH75, Klo87, Kro58, KEJ87, KG63, Kum65, KHBC66, KC66b, Kur57, KM74, Lin67, MPST66, MU77, MS60a, MMT60, Mid62, Mid65, Mid66, MW67, NM65, OHSP76, PC64, PDLM67, PBF60, RSSS82, RF78, Ree59, SK69, Sch75, SJ70, Seg62, SBdF64, SFD77, Slo66, Smi60, SSTF77, AF68, AdH00b, BNT86, Cha69, CCG73, CDM89, CNS<sup>+</sup>99, DPW00, GSG<sup>+</sup>90, Gre68, GMP90, GLG<sup>+</sup>99, LFC95, MFPJ71, MFS<sup>+</sup>11, Ngu99, Pen69, PW68, SF93, SAK70, SD71, SGT78, SHSY90, SHSY00, TCCH98, Tu90, WL73, You90]. **Filter** [COC61, Dod63, God74, Low78, RTM65, VSF65, Bus71, KFYU92, Peh69]. **filtered** [CHL<sup>+</sup>11]. **Filtering** [FF73, Nus76b, Nus77, PLHJ70]. **Filters** [Pis74, Roe66, GM69, WPH69]. **final** [BKP82]. **finance** [RS14]. **Financial** [ABD<sup>+</sup>14, HS14, Car10, KOP14, LSS14, RAR<sup>+</sup>14]. **Finding** [CCFB<sup>+</sup>12, HW72, Jam89, MN90, Nef90, Bra72a]. **Fine** [BBK<sup>+</sup>08, KZP03, HRS<sup>+</sup>95, KAB<sup>+</sup>05, SLC09]. **Fine-grain** [KZP03]. **Fine-grained** [BBK<sup>+</sup>08, SLC09]. **fine-pitch** [KAB<sup>+</sup>05]. **FinFETs** [SRH<sup>+</sup>18]. **Fingertips** [Goo58]. **Finite** [AG72, BF63, BCGS81, BCGS00, Cor93, Hoh78, RS59a, Ros66, You90, BSHM01, EM65, GA68, HMOS81, HMO81, JL90, KN91b, Lan66, MHI01, Mic59]. **Finite-Element** [BCGS81, BCGS00]. **fire** [PKXK07]. **Firm** [And10]. **Firmware** [KWH<sup>+</sup>12, AHM<sup>+</sup>07, ABB<sup>+</sup>15, GHL<sup>+</sup>04, KKB<sup>+</sup>09b, SMP<sup>+</sup>04, SvBC<sup>+</sup>04, TAE<sup>+</sup>07, TCK<sup>+</sup>15, WPL<sup>+</sup>12]. **First** [HPW<sup>+</sup>02, Koz81a, SM62, Swa57, WBH<sup>+</sup>04,

CRDI07, DL02, FCE<sup>+15</sup>, GP06a, Gyg08, KBF<sup>+04</sup>, Koz81b, SS20, SS86, ACM01]. **First-** [HPW<sup>+02</sup>, SM62, WBH<sup>+04</sup>]. **First-Order** [Koz81a, Swa57, Koz81b]. **first-principles** [Gyg08]. **first-responder** [SS20]. **first-time** [DL02]. **Firstfilter** [VNT16]. **Fitting** [Nor58]. **Five** [Ano61e, Fre04]. **fixed** [SG94a, TLM83, ZTC<sup>+13</sup>]. **fixed-point** [SG94a]. **Flash** [Bau84, CAC<sup>+13</sup>, Lai08, Nii95]. **FLASH3** [FKL<sup>+08</sup>]. **Flashlamp** [SL67, HA71]. **flashlamp-pumped** [HA71]. **Flat** [Kum65, BE03]. **flaws** [Mar12]. **Fleshing** [MW80b, WM81]. **flexibility** [BBSW97, EBD<sup>+95</sup>, KWN01]. **Flexible** [Ada80, ALL77, BT78, BFT79, BKU88, BBKW86, CTT66, GHK67, Hai85, PVDF95, Pol78, PVAK02, Tib93, WSB90, Wit85, DDA<sup>+93</sup>, KDG15]. **Flexible-Disk** [Ada80]. **flip** [Hei90]. **flip-chip-mounted** [Hei90]. **Floating** [ABC<sup>+99b</sup>, AEGP67, BD96, Cli90, SW90, CBB<sup>+05</sup>, DTH92, DDZ<sup>+07</sup>, GWS<sup>+04</sup>, HFH94, HM90, JO96, MHR90, SSM97, SK99, SKC09]. **Floating-Point** [ABC<sup>+99b</sup>, BD96, SW90, AEGP67, CBB<sup>+05</sup>, DTH92, DDZ<sup>+07</sup>, GWS<sup>+04</sup>, HFH94, HM90, MHR90, SSM97, SK99, SKC09]. **Flood** [Tod78b]. **flooding** [TPC<sup>+13</sup>]. **Flow** [CTT66, DH61, KWB88, LL83, Lev77, Tit61, Wit85, IMC<sup>+10</sup>, LPPT86, Lom77, PH81, VJA07]. **Flowcharts** [SBH82]. **Flowgraphs** [BBCV80]. **flows** [BS91]. **Fluctuations** [Was88]. **Fluid** [Fro84, Lev77, TC63, Bru76, HBW70, Okt71, PZGL91]. **Fluorescence** [Lun79, MVB62]. **Fluoride** [SS61]. **Fluorocarbon** [CK79]. **Flux** [Cro57, GMW80, Spr61, Pai72]. **Fly** [Pat86]. **Fly's** [RHM63]. **Fly's-Eye** [RHM63]. **fMRI** [RC17]. **focus** [GCS<sup>+12</sup>]. **focused** [BMD<sup>+20</sup>, BNSG09, CCE<sup>+20</sup>]. **focusing** [Shi73]. **Foil** [Bau63, Lan63, SWD74, VG74]. **Foils** [BP75, JD67]. **Fokker** [HJ88]. **Font** [ZL87]. **fonts** [CFW82]. **Food** [HT16, BKF<sup>+16</sup>, BMF<sup>+16</sup>, BW16, EBH<sup>+16</sup>, FKOW16, LZZ<sup>+16</sup>, NBF<sup>+16</sup>, WSE<sup>+16</sup>, YT16]. **food-stock** [NBF<sup>+16</sup>]. **footprints** [CLH<sup>+16</sup>]. **Force** [BB60, Col59, Mat95, Rat68, BCC<sup>+12</sup>, DB01, LFC95, PH81, Pes71, Sto91]. **Force-frequency** [Rat68]. **Forced** [Poh79]. **Forces** [CC76a, BKB76]. **forecast** [GSAB93]. **forecasting** [AYA14, KLHW16, NML<sup>+20</sup>, TYM<sup>+14</sup>, TWM<sup>+14</sup>, TPC<sup>+13</sup>, WAC<sup>+16</sup>]. **forecasts** [BKF<sup>+16</sup>]. **forest** [BJW72]. **Foreword** [And65, Ano67u, Cam00, GM60, Mar62, Pri64, Pug60, Sam64, Tuc60a]. **Form** [Fre79, Kuh88, Gre59, KRC68]. **Formal** [Luc81, SBF<sup>+97</sup>, GBRJ05, KSL95]. **Formaldehyde** [BRA84]. **Formalism** [BKU88]. **formalization** [Dun57a]. **format** [Jaq03]. **Formation** [FPS66, Har65, Kue90, Lee74, Pan78, Pim76, PL77, SBT87, Spe69, Tu90]. **Formatting** [Cha87]. **formed** [SF93]. **Forming** [Par66]. **Forms** [(Ga57, GLM<sup>+96</sup>]. **forms-processing** [GLM<sup>+96</sup>]. **Formula** [Mei83, SS88]. **Formulae** [Jam89, MR72]. **formulas** [AG72]. **formulation** [Lat73]. **FORTRAN** [Sar97, SK80, SSW91, SZ91, SK86]. **Forward** [Ahu80, SL76]. **foster** [KRS<sup>+17</sup>]. **Foundation** [DAC<sup>+03</sup>]. **Foundations** [HEH<sup>+10</sup>]. **Four** [Ano58g, Ano58h, Ano59e, Ano60f, Ano60g, GPL<sup>+92</sup>, Hos94]. **four-level** [GPL<sup>+92</sup>]. **four-parameter** [Hos94]. **Fourier** [AC86, AS87, DG84, Gaz78, GS70, Gre60, Har71, Kri82, NQ78, Zwe65]. **Fourier-Domain** [GS70]. **Fowler** [Dan66]. **FP** [HHH86]. **FPGA** [CJH<sup>+15</sup>]. **FPU** [LKFU05, Wai05]. **Fractal** [VMH<sup>+83</sup>, AO97, AO01, MM91, ODA03, Thi88]. **Fracture** [Klo87, Tho94]. **Fragmentation** [FC79]. **frame** [NCM<sup>+01</sup>]. **framers** [Cla03]. **Frames** [Alf89, MW80b]. **Framework** [HSS<sup>+10</sup>, ACC<sup>+15</sup>, BHK<sup>+02</sup>, DXZS13,



EFR<sup>+05</sup>, FKL<sup>+08</sup>, FM10, GZE<sup>+05</sup>, GLK<sup>+12</sup>, GHH<sup>+17</sup>, HBT<sup>+16</sup>, KKB<sup>+09a</sup>, KKL<sup>+14</sup>, KJS09, LZZ<sup>+16</sup>, MBF<sup>+13</sup>, MMWLN99, Mas97, RAMD19, RAR<sup>+14</sup>, RD12, SMX<sup>+14</sup>. **Free** [CH74, Col62, DB79, Gun66b, HS81a, Mat62b, Pri58c, VM79, KLS<sup>+05</sup>, SAT<sup>+08</sup>, vK62]. **Free-Base** [VM79]. **Free-Charge** [CH74]. **Free-Induction** [DB79]. **Freed** [Lom75]. **Freedom** [Hau67]. **freestanding** [DN97]. **freight** [RC09]. **Frequencies** [Ins77]. **Frequency** [Ber64, FP69, JC00, KP59, Moh70, Rem67, RP66, Thr65, ZZ69, CCW<sup>+02</sup>, CFP<sup>+07</sup>, HAMC<sup>+04</sup>, PZK<sup>+03</sup>, Rat68, RH90, WL97, ZTC<sup>+13</sup>]. **Frequency-Division** [Thr65]. **frequency-programmable** [HAMC<sup>+04</sup>]. **Fresnel** [Arm65]. **Friction** [BP75, Mat95]. **Friedrichs** [Lax67]. **Fringe** [Abb66, PW68]. **Front** [Ano11, Ano12f, Ano12g, Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano12m, Ano12n, Ano12o, Ano12p, Ano12q, Ano12r, Ano12s, Ano12t, Ano12u, Ano12v, Ano12w, Ano12x, Ano12y, Ano12z, Ano13a, Ano13b, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano13m, Ano13n, Ano13o, Ano13p, Ano13q, Ano13r, Ano13s, Ano13t, Ano13u, Ano13v, Ano13w, Ano13x, Ano13y, Ano13z, Ano14a, Ano14b, Ano14c, Ano14d, Ano14e, Ano14f, Ano14g, Ano14h, Ano14i, Ano14j, Ano14k, Ano14l, Ano14m, Ano14n, Ano14o, Ano14p, Ano14q, Ano14r, Ano14s, Ano14t, Ano14u, Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano15n, Ano15o, Ano15p, Ano15q, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano15z, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano16m, Ano16n, Ano16o, Ano16p, Ano16q, Ano16r, Ano16s, Ano16t, Ano16u, Ano16v, Ano16w, Ano16x, Ano16y, Ano16z, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17r, Ano17s, Ano17t, Ano17u, Ano17v, Ano17w, Ano17x, Ano17y, Ano17z, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z, Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20r, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y, Ano20z]. **Front-cover** [Ano13b]. **Fronts** [BS69]. **frustration** [ABK89]. **fs** [HDK<sup>+11</sup>]. **fs-laser** [HDK<sup>+11</sup>]. **Full** [DWGC85, HA58, Rut57, PBC<sup>+06</sup>]. **full-system** [PBC<sup>+06</sup>]. **Full-Travel** [DWGC85]. **Fully** [MWW<sup>+07</sup>, HDK<sup>+11</sup>, MBJ<sup>+97</sup>]. **Function** [(Ga57, Lin84, Mic78, Mir69, NB61a, NB61b, Rad62, Ree69, BZ06a, CCC<sup>+15</sup>, FXL01, Kam98, KJP11, MVI<sup>+07</sup>, Shu94, Str68, WSCK17). **Functional** [BGW<sup>+04</sup>, Fag77, GBRJ05, HAMC<sup>+04</sup>, JPTW92, KBG<sup>+09</sup>, LRH<sup>+02</sup>, Mat89, SRL<sup>+11</sup>, VLP<sup>+05</sup>, WMH<sup>+97</sup>, AGZ94a, GMS05, KAB<sup>+12</sup>, MMR89, SWF<sup>+09</sup>]. **functionality** [SNA02]. **Functions** [ACG<sup>+86</sup>, BBT79, Bra87, Bur75, Cle65b, DC73a, EP86, Hor76, Hud63, Rem67, Ris84, Sta67, Ull65, ACG<sup>+87</sup>, Cor69, DH69, DCB77, DH03, EFG<sup>+05</sup>, Fil70, FTY83, FJSS89, GM73, JC00, MN70, Mar90, May60, MM75b].

**Fundamental** [Ano62e, Lei62, Mar62, Ver88]. **Fundamentals** [ŽFE06, Mey90, Mey00a]. **Further** [Fla91, FC63]. **fused** [AEG<sup>+02</sup>]. **Fusible** [FT80]. **Fusing** [Bau84, Bro78]. **fusion** [ETWO08]. **Future** [AR98, Fra79, GA84, BIK<sup>+05</sup>, Isa00, JMM<sup>+96</sup>, KBS<sup>+99</sup>, Law02, MDB<sup>+02</sup>, NHKI03, The00, TB00, TPTH20, VDD<sup>+00</sup>]. **Future-Dependent** [Fra79]. **fuzzy** [BC00].

**G** [CS03]. **G3** [Mau97, RGP<sup>+97</sup>]. **G4** [Mau97, RGP<sup>+97</sup>, SSM97, SCC<sup>+97</sup>, SWC<sup>+97</sup>, WMH<sup>+97</sup>]. **G5** [SMK<sup>+99</sup>, ABB<sup>+99</sup>, CP99, CS99, DSM<sup>+99</sup>, JL99, KBM<sup>+99</sup>, MAF<sup>+99</sup>, RHM<sup>+99</sup>, SK99, SG99, TMB<sup>+99</sup>]. **G5/G6** [CP99, TMB<sup>+99</sup>]. **G6** [ABB<sup>+99</sup>, CP99, CS99, JL99, MAF<sup>+99</sup>, TMB<sup>+99</sup>]. **Ga** [MKP73, LMPP69, TZZ<sup>+11</sup>]. **GaAl** [Cro79, LSH79]. **GaAlAs** [DC82]. **GaAs** [BV78, BGS64, BLB<sup>+63</sup>, Gun66a, Gun66b, HVK<sup>+90</sup>, HD69, HFDN63, IBC64, JVP<sup>+90</sup>, Jon65, LDDDB63, Lud78, LSH79, MB75, Mar60b, Mar64c, Mar71, MWN63, PR65, PRY65, Ree69, SSG69, SA66, Spe69, SAL63, TZZ<sup>+11</sup>, Tit63, Wei65, WW71]. **GaAs/** [LSH79]. **GaAs/AlGaAs** [HVK<sup>+90</sup>]. **Gadolinium** [SK69, SOC59, MKP73]. **Gadolinium-Iron** [SOC59]. **Gafac** [Sch84]. **Gaining** [CFH<sup>+09</sup>]. **Galapagos** [MDJV08]. **gallate** [GSG<sup>+90</sup>]. **Gallium** [And60, vM66, MKP73]. **Galvanomagnetic** [TH64, Vui64]. **Game** [Sam59, Sam67, Tuc60b, Lew12, PW72, Sam00, TGL<sup>+12</sup>]. **gamification** [CR15]. **gamma** [Sta73]. **GAN** [SHCV19]. **Gap** [Dou62, FK62, Ku63, Tin62, RDL19, FPS66, PF66]. **gaps** [Thi88]. **Garnet** [Dav77, Mee67, SK69, SOC59, MKP73]. **Gas** [AS78, BL62, BdM<sup>+78</sup>, GBC65, Ham78, Lan85, Lan74, LS78, LCH74, OPR<sup>+78</sup>, O'H78, PW78, RP78, RBC78, SS78, VGC79,

Ano71, BHHO59, Gro59, Hun71, Mic59, SdS89]. **gas-phase** [Hun71]. **GaSb** [Lud78]. **Gases** [Cas60]. **Gasifier** [Sti79]. **Gate** [Dan81, GS80, OG80, ABC+99a, AIH+98, BBH82, Buc99b, CKG+99, CAC+95, CDS73, CDS00, EB99, FCE+15, HD73, HBC+99, HBB99, JVP+90, KM73, KSK98, Luc99, OS99, OKH+02, SHWK+90, Sta02, WNV+02]. **gate-delay** [KSK98]. **gate-first** [FCE+15]. **gates** [GNF06]. **gathering** [MFL+12]. **Gazalé** [Rad62]. **Gb** [ABB+08, ESW+95]. **Gb/in** [ABB+08]. **Gb/s** [ESW+95]. **Gd** [MKP73, OHSP76]. **Gd-Co** [OHSP76]. **GdCoCr** [Sch75]. **Ge** [BC60a, BC60c, BC60b, Bay69, IM60, Jon65, Mar60a, Mar60b, Mey90, Mey00a, OMAW60, SAK70, SLYR72, SFFF11]. **Gene** [BCK13, ABC+05, ABB+13, AAC+05, ADG+05, BSJ+13, BGH+05, BBK+08, BHD+05, CCD+13, CBB+05, CP13, CKL+13, CNC+08, CBC+05, CHT+13, DT08, DLJ+08, EO13, EFR+05, EWS+13, FKL+08, GBC+05, GBB+05a, HBB+05, IBP+05, KHZ+08, LKFU05, MSW+05, MAA+05, OBB+05, OWG+13, PMS+08, RIB+13, SCG+13, SPP+05, IBM13a, IBM13b, IBM13c, WAB+05]. **Gene/L** [ABC+05, AAC+05, ADG+05, BGH+05, BBK+08, BHD+05, CBB+05, CNC+08, CBC+05, DT08, DLJ+08, EFR+05, FKL+08, GBC+05, GBB+05a, HBB+05, IBP+05, KHZ+08, LKFU05, MSW+05, MAA+05, OBB+05, PMS+08, WAB+05]. **Gene/P** [IBM08]. **Gene/Q** [BCK13, ABB+13, BSJ+13, CCD+13, CP13, CKL+13, CHT+13, EO13, EWS+13, OWG+13, RIB+13, SCG+13, IBM13a, IBM13c]. **General** [CHW75a, GM73, Hor57, Luk75, LSH76, RP78, Tay81, Wes78, DAUS91, Fra80b, Gra69, dTGHC92, HRW69, LH84, QS67, SS82, TLM83, Kov06, Mau18, Mau20]. **General-Purpose** [Tay81, DAUS91, Gra69, LH84]. **Generalizations** [Dor62]. **Generalized** [Azb88, Coo84, LB85, Ris76, Rob67, ACC+15, BHM04, EM65, Gus03, Str68]. **generated** [BL69, CN18, CPCC18, KBJ+18, MS89]. **Generating** [OH74, RHM63, SHCV19, van77, WLEF89]. **Generation** [Bea74, BMS80, CW85, Chi86, CN71, DGL+97, Sch67, TC84, Ver80, AEG+20, ACD+15, CCFB+12, DEG+01, GCL+19, HRS07, JGD+08, KWB+15, KAB+05, KCA+95, Lan61, Lan00a, LSF84, LBB+13, MWW+07, OW00, RAMD19, SFH+16, Tan08, TYSS19, VPD88, VTMB+90, WAC+16, WD94]. **generative** [SHCV19]. **Generator** [EL80, CL86]. **generators** [AEG+02]. **generically** [Gri04]. **Genes** [Pic87, DB01]. **Geneva** [HP66]. **GENRAND** [Wil97]. **geo** [BDMN14]. **geo-social** [BDMN14]. **Geologic** [ABC+85]. **Geological** [SM78]. **Geometric** [Gol69, JS89, Ree59, RR87, SJ89, WLPL+80, EKR87]. **Geometries** [Dem78]. **Geometry** [Gae79, Ins77, GA68]. **geospatial** [AEG+20]. **geospatial-temporal** [AEG+20]. **geotemporal** [MNWH20]. **Germanium** [And60, BA62, DH61, Hun59, Key61a, KK59, MN67b, NM62, SFG+06, GC68, MNS69, Mey00b, Pai69, Seg68, SNM69]. **germanium-based** [Mey00b]. **Germanium-Gallium** [And60]. **GeTe** [CSE66]. **Gettering** [GT80]. **GF11** [Kum92]. **GHz** [Sha02]. **Giant** [Gar64, Far98]. **Giant-Pulse** [Gar64]. **gigahertz** [Ok103]. **gigascale** [MDZH+02]. **Ginzburg** [Dou62, Sch89]. **Given** [OG87, ODA03, Sug59]. **Glamor** [LNT08]. **Glass** [IBC64, Ker64, MLSS84, MVK85, PW78, Pea69, Tan74, KFSZ92, TKK+92, YCB05]. **Glass-Bonded** [Tan74]. **glass-ceramic** [KFSZ92, TKK+92, YCB05]. **glass-ceramic/copper** [TKK+92]. **glass-ceramic/copper/polyimide** [KFSZ92]. **Glass-Passivated** [IBC64].

**Glasses** [GFHW82]. **Glassy** [Mor89]. **glaze** [Kah71]. **Global** [DR08, LHW81, Pul07, AUW<sup>+</sup>09, BKF<sup>+</sup>16, CPvR00, GRS13, KJS09, KLE71, QS67, SP14]. **globally** [BGLM09, DSZ<sup>+</sup>12]. **globular** [FXL01]. **Globus** [GHN04]. **Glow** [Pen79]. **Glycine** [Tri58]. **glycosylation** [NBF<sup>+</sup>00]. **GMR** [Nes98]. **GNU** [GHL<sup>+</sup>04]. **go** [OKH<sup>+</sup>02]. **goals** [MDR<sup>+</sup>07, MWL<sup>+</sup>14]. **Gold** [JC63]. **Good** [SMD80, LKY80]. **governance** [BKN10, CM19]. **Governing** [Lan85, Mal13]. **GPFS** [AHH<sup>+</sup>14, JSS13]. **GPFS-based** [AHH<sup>+</sup>14]. **GPU** [EBB<sup>+</sup>20, SC20, TMT<sup>+</sup>20]. **Grade** [CSY79]. **Graded** [KO67]. **gradient** [CW72, RV89, Wol72]. **gradients** [ZCK71]. **Gradual** [BBT60]. **Grain** [KWB88, CDM89, KZP03, Pes71]. **grain-oriented** [Pes71]. **grained** [BBK<sup>+</sup>08, SLC09]. **grammar** [BBCV80]. **grammars** [Arb86]. **Grammatical** [ODA03]. **Granular** [Gou89]. **Granularity** [Lor70]. **Graph** [BKU88, EB06, FL76, WML<sup>+</sup>16, Gup97, Hof60, May60, Sar91a, CP13]. **Graph-based** [WML<sup>+</sup>16]. **Graph-Unification** [BKU88]. **graphene** [HKvG<sup>+</sup>11, ZVW<sup>+</sup>11]. **Graphic** [GM69, PZGL91, MS89, PS91]. **graphics** [BKM<sup>+</sup>69, CS84, FGW81, GH96, Pic91, SHDK95]. **Graphite** [DM64, McC64, Sou64]. **Graphites** [Kle64]. **Graphs** [DH73, FLDC86, Luk75, RK62, Sow76, SW86, HS60, HRWZ87, Rai69, VPD88]. **grasps** [NS92]. **Grating** [BF63]. **Gratings** [BC65, SJK70, YL98]. **gravitational** [LQRS04]. **Gray** [TLR85, APOI92, TSH92]. **Gray-Scale** [TLR85, APOI92, TSH92]. **greedy** [AGJA06, DH03]. **Green** [Nun09, OB09, PF66]. **Grid** [Cha67, BPG<sup>+</sup>16, CRM02, GAJ<sup>+</sup>16, HSL<sup>+</sup>10, KFH<sup>+</sup>06]. **grids** [CN94, RWP16]. **GRIN** [FGW81]. **grocery** [YGR14]. **Gross** [BMT<sup>+</sup>90, Gli69]. **grossly** [PPG<sup>+</sup>01]. **Group** [LT70, Pat70, Joh87, Mel60b, Par98, YHA71, Bal05, CFG64, DR08, Des02, Des04, Mey03, Nun09, Pri07]. **groups** [SLC09]. **Grown** [AO60, BC60b, BC60a, BC60c, IM60, OMAW60, FPS66, PF66, MPCF82]. **Growth** [BV78, BS64, GK60, GM60, GLG<sup>+</sup>99, LL83, MJS70, Mar60a, Mar60b, Mol69, Nun09, Ros00, WKW60, BNT86, BJW72, Can73, DKR12, EK08, GBBM90, HKvG<sup>+</sup>11, MWEJ05, SSFF11]. **Guidance** [Soh76]. **guided** [BSRG17]. **Guiding** [Kan15]. **gyrokinetic** [ETWO08].

**H** [Ber76a, Wie76, Ano66j, Bra72b, GBC65]. **Haas** [Bro66]. **Haas-Shubnikov** [Bro66]. **Hacienda** [FGM<sup>+</sup>83]. **Hadoop** [GGH<sup>+</sup>13]. **Half** [Che64, KCA<sup>+</sup>95]. **half-micron** [KCA<sup>+</sup>95]. **Half-Space** [Che64]. **Half-toning** [GT87, AKM<sup>+</sup>03, AP82]. **Hall** [JJ64, Sie70, Azb88, Bra75, FFH64, KKK61, Pri57a]. **Hammers** [Hen83]. **hamster** [NBF<sup>+</sup>00]. **Hand** [BCRT74, DDMS92]. **Hand-Held** [BCRT74]. **hand-printed** [DDMS92]. **Handling** [AST67a, Hai85, PH79]. **Handprinted** [Cas70]. **Handwriting** [Lew83]. **Handwritten** [CK63, GMNE63]. **Hard** [BE03, Kum65, LeB62, NM65, KWT<sup>+</sup>11, Ono93, SPR<sup>+</sup>95]. **hard-disk** [Ono93]. **Hard-disk-drive** [BE03, SPR<sup>+</sup>95]. **Hard-Sphere** [NM65]. **Hardened** [Keh65]. **Hardening** [Pol78]. **Hardware** [ABB<sup>+</sup>03, Ano19j, BGM90, BBHS84, BHK<sup>+</sup>02, Des04, HSC82, LBH<sup>+</sup>75, MO84, Ost84, SBH82, Tod78a, BFG<sup>+</sup>99, CNL<sup>+</sup>19, CHMW07, Cra98, JWS<sup>+</sup>09, LBB<sup>+</sup>13, LRNS17, MP88a, NNMJ01, Pig88, RP14, SMP<sup>+</sup>04, TW85, VOW<sup>+</sup>12, VCM<sup>+</sup>20, WET<sup>+</sup>10, ZBBB17, ZS03]. **Harmonic** [Hel79]. **Harmonic-Drive** [Hel79]. **harmonization** [RM09]. **Harmonizing** [PP09]. **Harmony** [WML<sup>+</sup>16]. **Harnessing** [SPB<sup>+</sup>17]. **harvest** [BW16]. **Hashing** [Pip79, Hui90]. **Having** [BKM80b, HB73, Her66, Kar73]. **haystack**

[CCFB<sup>+</sup>12]. **Hazard** [Eic65]. **HBr** [GBC65]. **HD** [Les71]. **HDTV** [LL99]. **He-Ne** [CBCM79]. **Head** [Ada80, BBT85, CDS<sup>+</sup>86, CPL<sup>+</sup>74, Fan61, FMPS93, FK62, Gre79, Ibe03, Ku63, Osw74, Pol78, Ros66, Sea58, Hsi99, Led71]. **Head-Positioning** [Osw74]. **Head-Tape** [Gre79]. **Head/Disk** [BBT85]. **Head/Tape** [FT77]. **Heads** [Hem74, Tan74, AR98, BE03, CCH<sup>+</sup>96, CBH<sup>+</sup>05, FCH70, Hsi99, ILH03, TFL<sup>+</sup>98]. **health** [BC18, BSN<sup>+</sup>12, CFH<sup>+</sup>09, CN18, CPCC18, GHH<sup>+</sup>17, GAJ<sup>+</sup>16, HHC<sup>+</sup>18, JDBP10, KBJ<sup>+</sup>18, Sha12]. **Healthcare** [Kov06, CRH12, CDS<sup>+</sup>19, GDLS14, GSC12, KBJ<sup>+</sup>18, Sha12]. **HeapMon** [SKSP06]. **Heart** [Tay57]. **Heart-Lung** [Tay57]. **Heat** [Dui59, Led71, MDJ<sup>+</sup>70, Lan61, Lan00a, LD72, Pai72, RK72, Whi72]. **Heat-transfer** [Led71]. **Heater** [NGMW57]. **Heating** [HC78, Har63, Lin67, PR65]. **heatmaps** [PMW06]. **Height** [Car77, Rio60]. **Heights** [CP86, FR60]. **Held** [BCRT74]. **helical** [MKP73]. **helicopter** [JC00]. **Helios** [WSK<sup>+</sup>93]. **helper** [SKSP06]. **helper-thread** [SKSP06]. **Helping** [DDDKW12]. **Hematologic** [FE75]. **Heme** [FE75]. **HeNe** [AH79, CCC<sup>+</sup>79]. **Hermitean** [CW58]. **Heterogeneous** [MLM<sup>+</sup>19, NMTP14, CFS<sup>+</sup>19, FNY<sup>+</sup>10, IJV19, MSG72, SAA<sup>+</sup>18]. **Heterojunction** [KSF90]. **Heterojunctions** [And60]. **heterostructure** [TWF90]. **heterostructures** [LFC95]. **Heuristic** [EL80, MFT77, OH74, Ray69, HCO74]. **HI** [KJS09]. **Hidden** [Bir01]. **Hierarchical** [SNA02, BMD<sup>+</sup>20, CHG04, TMS<sup>+</sup>01]. **Hierarchically** [FGT91]. **Hierarchies** [Cho74, Fra87, Gec74, Mat03]. **Hierarchy** [FB78, GLS74, MS75, CFS<sup>+</sup>19, FLMKS06, JL99, KAB<sup>+</sup>12, MHI01]. **High** [Ano89, AFR62, BDWZ83, BCSE89, BJS80, BOS<sup>+</sup>95, BCF<sup>+</sup>07, BFG<sup>+</sup>06, BB82, BAH82, BHWZ63, BCRW82, CD78, CDS<sup>+</sup>86, Car60, Cas60, CT06, CEY84, Dav82, DHSC64, DKR<sup>+</sup>90, DC82, DB76, EB91, FP69, GCPVG85, Gau77a, GS84, Gra80, Gre79, Gus03, HBL62, HVK<sup>+</sup>90, HDW<sup>+</sup>07, Har63, HCBA82, Hoa58, Hoa61, Hop59, JWL82, KJMS67, Kra81, LV67, LHW81, Lin81, LY83, MM75a, MTF<sup>+</sup>95, MKW<sup>+</sup>05, Mar64c, MPST66, MHI98, Moh70, NNMJ01, Ngu99, OK82, PH74, Pat85, PGN88, Pre66, Ree69, RP66, Sam81, SW98, SJK70, SN02, Sch85, SRCW97, Sko58, SGC<sup>+</sup>87, TW69, TKK<sup>+</sup>92, VCP80, Vui64, Vur70, Wei79, Woo75, ZL87, vv86b, AAF<sup>+</sup>09, AGZ94a, AGZ94b, BJM<sup>+</sup>06, BGK<sup>+</sup>82, BGO03, BGL<sup>+</sup>92, CNL<sup>+</sup>19, CBB<sup>+</sup>05, CCJH81, CBH<sup>+</sup>05, CCW<sup>+</sup>02, CFP<sup>+</sup>07, Dat93, DHSC00, DKS<sup>+</sup>95, DHK00, Eme89, FNRF89]. **high** [FL89, FNY<sup>+</sup>10, FMP<sup>+</sup>03, GOVC71, GAOD71, GSG<sup>+</sup>90, GNF06, GJ00, HHB<sup>+</sup>89, HBC<sup>+</sup>99, Hoa00, IS20, Ism00, IFB<sup>+</sup>11, KC89, Kat89, Kel89, KBK<sup>+</sup>97, KIF<sup>+</sup>89, KPT<sup>+</sup>02, LPPT86, LL98, Lip92b, MCAW95, MIL<sup>+</sup>18, MPHC90, Meh89, MAD<sup>+</sup>98, MBB<sup>+</sup>01, MS89, MZS<sup>+</sup>03, Mor89, Nob95b, Pat73, PGS<sup>+</sup>98, Pet89, PV93, PZK<sup>+</sup>03, RAG11, RH90, Rub90, SST<sup>+</sup>98, Sar97, SGS<sup>+</sup>96, Sch71, Sch89, SWC<sup>+</sup>95, SPR<sup>+</sup>95, SWC<sup>+</sup>97, SLJ<sup>+</sup>15, SHL<sup>+</sup>20, SGS<sup>+</sup>20, Tho70, TPC<sup>+</sup>13, UBK<sup>+</sup>88, VW78, VWE02, WL97, Wie90, WBS<sup>+</sup>18, WKD98, YCB05, YR91, ZG71, ZCK71]. **high-** [GSG<sup>+</sup>90, GNF06]. **high-availability** [VWE02]. **High-Density** [BDWZ83, BCRW82, CDS<sup>+</sup>86, Gra80, LHW81, Pat85, Sko58, MTF<sup>+</sup>95, Ngu99]. **high-dimensional** [YR91]. **High-Efficiency** [RP66, SJK70]. **High-end** [SN02, Lip92b, PGS<sup>+</sup>98]. **high-energy** [FNRF89]. **High-Field** [HBL62, Ree69, Vur70]. **High-Frequency** [FP69, Moh70, CCW<sup>+</sup>02, CFP<sup>+</sup>07, PZK<sup>+</sup>03, WL97]. **High-level** [BOS<sup>+</sup>95]. **High-Linear-Density** [Sch85]. **high-moment** [CBH<sup>+</sup>05]. **High-numerical-aperture** [SRCW97].

**high-order** [Sar97]. **High-Performance** [BB82, BAH82, DHSC64, GCPVG85, HCBA82, OK82, SGC<sup>+</sup>87, BFG<sup>+</sup>06, Gus03, TKK<sup>+</sup>92, AGZ94a, AGZ94b, BGL<sup>+</sup>92, CBB<sup>+</sup>05, DHSC00, DKS<sup>+</sup>95, FNY<sup>+</sup>10, GOVC71, GAOD71, GJ00, IS20, IFB<sup>+</sup>11, KBK<sup>+</sup>97, KPT<sup>+</sup>02, MCAW95, MIL<sup>+</sup>18, MZS<sup>+</sup>03, PV93, RAG11, Rub90, SPR<sup>+</sup>95, SWC<sup>+</sup>97, SLJ<sup>+</sup>15, SHL<sup>+</sup>20, WBS<sup>+</sup>18, WKD98]. **High-quality** [CT06, HBC<sup>+</sup>99]. **high-refractive-index** [BGO03]. **high-reliability** [WBS<sup>+</sup>18, YCB05]. **High-Resolution** [BJS80, DC82, Hoa58, JWL82, Kra81, LY83, SW98, LPPT86, LL98, MBB<sup>+</sup>01, PGN88, SST<sup>+</sup>98, TPC<sup>+</sup>13, UBK<sup>+</sup>88]. **High-Sensitivity** [VCP80, Sch71]. **High-Speed** [AFR62, BHWZ63, Car60, CEY84, DB76, Har63, Hop59, LV67, MPST66, Pre66, Wei79, Woo75, ZL87, BCF<sup>+</sup>07, DKR<sup>+</sup>90, HVK<sup>+</sup>90, HDW<sup>+</sup>07, Lin81, MKW<sup>+</sup>05, BJM<sup>+</sup>06, BGK<sup>+</sup>82, FMP<sup>+</sup>03, Ism00, MPHC90, Nob95b, SGS<sup>+</sup>20, Tho70, Wie90]. **High-Stability** [vv86b]. **High-T** [BCSE89, FNRF89, FL89, HHB<sup>+</sup>89, KC89, Kat89, Kel89, KIF<sup>+</sup>89, Meh89, Mor89]. **High-Temperature** [Ano89, GS84, Eme89, Pet89, Sch89]. **High-throughput** [NNMJ01, PGN88]. **High-Vacuum** [Cas60]. **High-Voltage** [Gau77a]. **higher** [DBK82, ZTC<sup>+</sup>13]. **higher-order** [DBK82]. **highest** [MR72]. **Highly** [Bea74, JWSP06, SG94b, SHTP11, ACFS16, ACD<sup>+</sup>15, BFG<sup>+</sup>99, CDC96, FGMPK05]. **HiperSockets** [BEE<sup>+</sup>02]. **Historical** [PC85, SG99]. **History** [All81, Ben88, Ito00, Sam81, BPS81, Ben00, Spi93, Ito97]. **Hit** [Gec74]. **HIV** [YCJ<sup>+</sup>17]. **hodographs** [FS90]. **Hold** [Cor84].  **Holding** [Mat85]. **Hole** [FA70, GFHW82, RS69, VM79]. **Holes** [SBR64, Tie61]. **Holland** [Bil70, Bil72]. **Hologram** [SJK70, MS89]. **Holograms** [Arm65, UL70, Win70, BL69]. **Holographic** [ABB<sup>+</sup>00b, Lor70, RC17, WS72, Gab69, SGY<sup>+</sup>98]. **Holography** [DSW82, MW70, Ano70a, BWB<sup>+</sup>82]. **homeless** [YCJ<sup>+</sup>17]. **Homogeneous** [Gru79, Sat63]. **homologous** [YHA71]. **homomorphic** [BC18]. **Hook** [Ken61b]. **Hopscotch** [GM72]. **Horizontal** [Ost84]. **Horn** [vv86a]. **Horn-clause** [vv86a]. **Horner** [Dor62]. **host** [AHM<sup>+</sup>07, BCH<sup>+</sup>16]. **hosted** [CPT<sup>+</sup>08]. **Hot** [Lud00, MNP<sup>+</sup>69, Pri59, Pri65, HF90, Pri70]. **Hot-Electron** [MNP<sup>+</sup>69, Lud00, HF90]. **HR** [Sim19]. **HTC** [Gou89]. **Hub** [CNP<sup>+</sup>15]. **Hudson** [KCH<sup>+</sup>09]. **Hull** [AW76, Dun57a]. **Human** [CK63, TL70, DB01, FSG<sup>+</sup>73, MG68, RP14, RDL19]. **humanitarian** [KVP<sup>+</sup>20, NQ20, PSD<sup>+</sup>17]. **Huntington** [PCW<sup>+</sup>17]. **HW** [KKS02]. **HW/SW** [KKS02]. **Hybrid** [EBB<sup>+</sup>20, GKMP04, Llo67, MIL<sup>+</sup>18, PBK<sup>+</sup>09, RP70, WSW83, BMM<sup>+</sup>20, IMC<sup>+</sup>10, PLK09, VLB<sup>+</sup>09]. **Hydraulic** [MJ64, Tit61]. **hydraulically** [Gre60]. **hydrocarbons** [Cas71, CNC<sup>+</sup>08]. **Hydrodynamic** [SCRV78, TT74]. **hydrodynamics** [SdS89]. **Hydrogen** [BBS78, Key61b, Lev64, Pan78]. **Hydrogen-like** [Key61b]. **hydrology** [Fre72]. **hydrophobic** [FXL01]. **Hydrostatic** [MNP<sup>+</sup>69]. **Hyper** [KKS02]. **Hyper-acceleration** [KKS02]. **Hyperbolic** [Lax67, GM72]. **hyperconverged** [AHH<sup>+</sup>14]. **hypercubes** [HJ94]. **Hyperledger** [MBT19, BHH19]. **hyperparameter** [DFNNS17]. **hyperparameters** [OD17]. **hyperpyramids** [HJ94]. **hypersonic** [CPvR00]. **hypophosphite** [GB93].

**I/O** [ABB<sup>+</sup>12a, ABB<sup>+</sup>15, BAB<sup>+</sup>18, BBC<sup>+</sup>12a, CBB<sup>+</sup>04, CCD<sup>+</sup>09, CAC<sup>+</sup>13, CCC<sup>+</sup>15, CHJ<sup>+</sup>18, GMS05, Gre97, GE02, GCS<sup>+</sup>12,

HBB<sup>+07</sup>, HBL<sup>+99</sup>, HS04, HSL<sup>+05</sup>, OHK<sup>+07</sup>, SHR<sup>+09</sup>, SBC<sup>+02</sup>, WMK<sup>+07</sup>, WYTO04]. **IBM** [ACG<sup>+87</sup>, Age04, Age05, Age08, Bal05, Ber76a, Che06, Che08, DR08, DCB77, Des02, Des04, Don00, Kov06, Lan96, Mau18, Mau20, Mey03, Pic18, Pri07, Ros03, SWC<sup>+97</sup>, Sta75, Wie76, WH94, ABC<sup>+99b</sup>, ADG<sup>+92a</sup>, ADG<sup>+95</sup>, ABE<sup>+02</sup>, AC86, ACG<sup>+86</sup>, ACG<sup>+87</sup>, ADS72, ABB<sup>+13</sup>, All81, ABB<sup>+03</sup>, AFM<sup>+02</sup>, ABB<sup>+12a</sup>, ABB64, ABB00a, Ana80, AST67a, AEGP67, ABB<sup>+12b</sup>, AAH68, Ano57k, Ano57l, Ano57m, Ano57n, Ano57q, Ano57r, Ano57s, Ano57t, Ano57v, Ano57u, Ano58j, Ano58k, Ano58l, Ano58m, Ano58n, Ano58o, Ano58p, Ano58q, Ano59f, Ano59g, Ano59h, Ano59i, Ano59j, Ano59k, Ano59l, Ano59m, Ano60i, Ano60j, Ano60k, Ano60l, Ano60m, Ano60n, Ano60o, Ano60p, Ano61f, Ano61g, Ano61h, Ano61i, Ano61j, Ano61k, Ano61l, Ano61m, Ano62f, Ano62g, Ano62h, Ano62i]. **IBM** [Ano62j, Ano62k, Ano63f, Ano63g, Ano63h, Ano63i, Ano63j, Ano63k, Ano63l, Ano63m, Ano64f, Ano64g, Ano64h, Ano64i, Ano64j, Ano64k, Ano64l, Ano64m, Ano64n, Ano65f, Ano65g, Ano65h, Ano65i, Ano65j, Ano65k, Ano65l, Ano65m, Ano65n, Ano65o, Ano66n, Ano66m, Ano66o, Ano66p, Ano66q, Ano66r, Ano66s, Ano66t, Ano66u, Ano66v, Ano66w, Ano66x, Ano67n, Ano67o, Ano67p, Ano67q, Ano67r, Ano67s, Ano67w, Ano67x, Ano67y, Ano67z, Ano67v, Ano67-27, Ano86a, Ano86b, Ano89, Ano90a, Ano90b, Ano90c, Ano92b, Ano92c, Ano92d, Ano92e, Ano92f, Ano92g, Ano93c, Ano93d, Ano93e, Ano94c, Ano94d, Ano94e, Ano94f, Ano94g, Ano94j, Ano94h, Ano94k, Ano94l, Ano94i, Ano94r, Ano94s, Ano94m, Ano94n, Ano94o, Ano94p]. **IBM** [Ano94q, Ano95d, Ano95e, Ano95f, Ano95i, Ano95g, Ano95h, Ano95j, Ano95k, Ano96g, Ano96h, Ano96i, Ano96j, Ano96k, Ano97f, Ano97g, Ano97h, Ano97i, Ano98g, Ano98h, Ano98i, Ano98j, Ano98k, Ano99f, Ano99g, Ano99h, Ano00i, Ano00f, Ano00g, Ano00h, Ano01c, Ano01i, Ano01j, Ano01l, Ano01m, Ano01k, Ano20e, Arc93, ABD<sup>+18</sup>, AAM<sup>+07</sup>, AHH<sup>+91</sup>, AV04, ADH<sup>+07</sup>, ABC<sup>+12</sup>, ACD<sup>+15</sup>, ABD<sup>+16</sup>, AHHN11, ABD<sup>+92</sup>, ABB<sup>+99</sup>, AHM<sup>+07</sup>, ABG<sup>+09</sup>, ABB<sup>+15</sup>, BBGE<sup>+14</sup>, BEK<sup>+02</sup>, BGM90, BS81, BEM<sup>+92</sup>, BS84a, BDN<sup>+02</sup>, Bar68, BBH<sup>+81</sup>, BR81, BHRS72, BAB<sup>+18</sup>, BHH<sup>+15</sup>, BBC<sup>+12a</sup>, BPS81, BSK<sup>+08</sup>, BCF<sup>+07</sup>, BAB<sup>+07</sup>, BWB<sup>+18</sup>, BWB<sup>+20</sup>, BSJ<sup>+13</sup>, BBD<sup>+17</sup>, BHK<sup>+02</sup>, BAV<sup>+09</sup>, BMM<sup>+20</sup>, BAB<sup>+13</sup>, BBK<sup>+08</sup>, BGM<sup>+67</sup>, BBMP92, BBB<sup>+20</sup>, BKRF02, BCK13, BCS<sup>+18</sup>, BS03, BBG<sup>+14</sup>, BRB92, BS70, BBC<sup>+12b</sup>, BCD<sup>+20</sup>, BMK<sup>+05</sup>]. **IBM** [vBBE<sup>+02</sup>, CNV<sup>+15</sup>, CCD<sup>+13</sup>, CSZ86, CDD82, CP99, CMPR64, CCG<sup>+81</sup>, CJJ<sup>+16</sup>, CP13, CTS<sup>+92</sup>, CBB<sup>+04</sup>, CCD<sup>+09</sup>, CAC<sup>+13</sup>, CCC<sup>+15</sup>, CDM92, CBC<sup>+18</sup>, CAD<sup>+09</sup>, CAK<sup>+15</sup>, CM90, CM00, CKL<sup>+13</sup>, Col69a, CM98, CNC<sup>+08</sup>, Cor69, CNC<sup>+95</sup>, CHT<sup>+13</sup>, Cov92, CHJ<sup>+18</sup>, CW91, CCW<sup>+02</sup>, CFP<sup>+07</sup>, CJB<sup>+15</sup>, DTH92, DHK<sup>+92</sup>, DSM<sup>+99</sup>, DGG<sup>+92</sup>, DT08, DSW82, DLJ<sup>+08</sup>, DL02, DEH<sup>+12</sup>, DHC20, DFF<sup>+15</sup>, EO13, EMM<sup>+18</sup>, Eic18, EWT<sup>+07</sup>, ES92, EGH<sup>+96</sup>, Eng81, EWS<sup>+13</sup>, FCS<sup>+04</sup>, FMPS93, FLS78, FKL<sup>+08</sup>, FGC92, FLR77, Fle95, FGK<sup>+07</sup>, FWR<sup>+11</sup>, FDS<sup>+13</sup>, FRS<sup>+18</sup>, FL67, FN71, FAJ<sup>+94</sup>, FBG12, FPB<sup>+11</sup>, GP06a, GGRW91, GRSW86, GLOS92, GWS<sup>+04</sup>, GRB<sup>+16</sup>, GR92, GGKK96, GT87, Gon99, GZM92, GKMP04, GPE99, GE02, GCS<sup>+12</sup>, GMS<sup>+12</sup>, Gro90, Gsc16, GS82b, HW12, Haj91, Har81, HPW<sup>+02</sup>, HDW<sup>+07</sup>, HHM70, HLS81, HHSR96, HTH<sup>+09</sup>, HF04]. **IBM** [HYA03, Hen68, Hip70, HAG<sup>+13</sup>, HBL<sup>+02</sup>, HM90, HS14, How84, HCTS81, HO96, HOWP92, ICO71, IS20, Ito97, Ito00, JL99, JWS<sup>+09</sup>, JSR<sup>+18</sup>, JML<sup>+18</sup>, JS81, JSM<sup>+18</sup>, KKS02, KS90, KN81, KMM<sup>+16</sup>, Kis96, Kis03, KLM<sup>+91</sup>, KKM02, KKB<sup>+09b</sup>, KWH<sup>+12</sup>, KDG15, Kos15, KDT18, KTD20, KBG<sup>+09</sup>, KAB<sup>+12</sup>, KHZ<sup>+08</sup>, KHK<sup>+18</sup>, LSF<sup>+07</sup>,

LGW<sup>+15</sup>, LVT<sup>+18</sup>, LL93, LH57, LH00, Lip92b, MSSM07, MO84, MWS09, Mar90, MIL<sup>+18</sup>, MD12b, MC09, Mau97, May81, MDR<sup>+07</sup>, MBB<sup>+18</sup>, MBB<sup>+20</sup>, MBF<sup>+07</sup>, MTS84, MLMP<sup>+12</sup>, MCG<sup>+15</sup>, MCH<sup>+82</sup>, MDN<sup>+18</sup>, MPP<sup>+15</sup>, Mil84, MHR90, MAF<sup>+99</sup>, NRD<sup>+09</sup>, NNF15, NAN<sup>+18</sup>, NK81, Nun09, OHK<sup>+07</sup>, OCB<sup>+90</sup>, OG90, ODA<sup>+08</sup>, OWG<sup>+13</sup>, PMS<sup>+08</sup>, PBC<sup>+04</sup>, Pat80, PMV15, Pat18, PGS<sup>+98</sup>, Pig88, PPS82, PC07, PSW<sup>+07</sup>, PVAK02, PHCR81, Pul07, RV89, RES<sup>+15</sup>, RAG11, RGP<sup>+97</sup>, RKW99, RB90, RSN82, Rey69, Rit13]. **IBM** [RFC<sup>+07</sup>, RMM20, RBL<sup>+18</sup>, RGPP95, RWL81, RIB<sup>+13</sup>, SWF<sup>+09</sup>, Sam81, Sam64, SKK<sup>+08</sup>, SRJ<sup>+20</sup>, Sar97, Sar91b, SSW91, SHR<sup>+09</sup>, SRL<sup>+11</sup>, SLA<sup>+15</sup>, SAA<sup>+18</sup>, SCS<sup>+02</sup>, SKC09, SKP<sup>+15</sup>, SF81, Ser82, SWB<sup>+91</sup>, SBDT<sup>+09</sup>, SGK04, SNA02, SRO93, SAB<sup>+02</sup>, SKS<sup>+11</sup>, SSN<sup>+15</sup>, SVE<sup>+15</sup>, SV91, SPM04, SLJ<sup>+15</sup>, SKS<sup>+20</sup>, Sor79, Sor00, SG99, Spi93, SCM<sup>+82</sup>, SSD<sup>+15</sup>, SDS<sup>+18</sup>, Ste01, SvBC<sup>+04</sup>, SRH<sup>+18</sup>, SBC<sup>+02</sup>, SBC<sup>+12</sup>, SSI<sup>+18</sup>, Stu70, SdS89, SCG<sup>+13</sup>, Sur15, SKE<sup>+18</sup>, SLP<sup>+20</sup>, SHM<sup>+12</sup>, Tag09, TFJ<sup>+96</sup>, TS82, TAE<sup>+07</sup>, TBB<sup>+09</sup>, TBG<sup>+15</sup>, TFR<sup>+01</sup>, TJHK03, TCK<sup>+15</sup>, TSC91, TBS09, UDP<sup>+12</sup>, VWE02, VOW<sup>+12</sup>, VCM<sup>+20</sup>, Vay12, VLB<sup>+09</sup>, Wai05, WMB<sup>+15</sup>, WHC<sup>+18</sup>, WBW<sup>+15</sup>, War90, WMK<sup>+07</sup>, WLB<sup>+15</sup>, WLS<sup>+20</sup>, WBD<sup>+11</sup>, WGF<sup>+06</sup>, Wil93, WCB<sup>+86</sup>, WHK<sup>+09</sup>, WBS<sup>+18</sup>, YSH12, ZST<sup>+07</sup>, ZCM<sup>+96</sup>, ZDB<sup>+18</sup>, ZFG<sup>+11</sup>, ZTC<sup>+13</sup>, ZFD<sup>+15</sup>, Ano06c]. **IC** [Coo84, FS82, HHSR96, NSOO98, PBK96]. **iCARE** [SMX<sup>+14</sup>]. **ICU** [OOL<sup>+12</sup>]. **IDB** [TPF<sup>+91</sup>]. **Ideal** [FH84, KG80, Roe66]. **Identification** [Cio86, CLOR87, Dah67, Boh70, HRWZ87, JC00, PAZ72, NRA<sup>+07</sup>]. **Identifying** [APRS16, CCBLM12, FSG<sup>+73</sup>, KSH<sup>+08</sup>, RWB<sup>+10</sup>, GDB16, Mar12]. **Identity** [MBF<sup>+13</sup>, RCP15, SSY12]. **IEEE** [ABC<sup>+99b</sup>, GHW<sup>+20</sup>]. **IGFET** [HMO81]. **IH** [RAG11]. **II** [BK74, Bar68, BRA84, CGLL93, CAS<sup>+91</sup>, DMN<sup>+59</sup>, FDN59, HMO81, LDDB63, MS87, Mic59, NB61b, ND57, ND00, Sam67, SNM69, SJ89, SS59b]. **III** [AAH68, BBB<sup>+20</sup>, BHHO59, CASP91, Gun64, KSF90, MKP73, RW59]. **III-V** [KSF90]. **Illustrating** [Joz04]. **Image** [ABC<sup>+85</sup>, AMG<sup>+87</sup>, BK74, Ber76b, BDS<sup>+97</sup>, CCP85, DG84, FGM<sup>+83</sup>, Gar86, Har65, KB74, LC82, McA83, Par66, SM78, San83b, WSW83, WR83, AW82, ACC<sup>+15</sup>, ARG00, CBK<sup>+98</sup>, CJH<sup>+15</sup>, CGLL93, CNH73, DBK82, JN82, KWB<sup>+15</sup>, MHR<sup>+15</sup>, Mon82b, OMA<sup>+96</sup>, PB89, Pri94, SCC<sup>+15</sup>, SJZ<sup>+15</sup>, TPF<sup>+91</sup>]. **Image-Forming** [Par66]. **imagery** [Pri94]. **Images** [Man85, Sch62a, TLR85, van77, AP82, ATL<sup>+88</sup>, CNP<sup>+17</sup>, Dan82]. **Imaginary** [Hun59]. **Imaging** [Arm65, DV74, CNC<sup>+08</sup>, Far82, KJP11, Sch91, SLK<sup>+97</sup>, TKV00, ZVW<sup>+11</sup>]. **Immersion** [GS82a, KT84]. **Impact** [Bos97, Bru97, Hel79, Hen83, MT84, Zab79, ZL87, CXZ<sup>+17</sup>, GWB<sup>+17</sup>, HS04, Kum92, SAPT01, SSFF11, TCP<sup>+16</sup>, ZL97]. **impacts** [TPTH20]. **impaired** [AKNR10]. **Impedance** [Hor76, Maz70, Pen79, HRW69]. **Impedances** [BBT60]. **impinging** [MKJM93]. **Implantation** [GT80, ZCK71]. **Implanted** [DYHS78, GS80, RGL75, WS75, YDHS78]. **implement** [VRA<sup>+09</sup>]. **Implementation** [AK82, ABB<sup>+85</sup>, AC84, Ber85, BBGP94, EFR<sup>+05</sup>, FT80, GCPVG85, HF94, LBH<sup>+75</sup>, MS87, SW83, Sow84, Wil85, AAC<sup>+05</sup>, AHH<sup>+14</sup>, BCG<sup>+09</sup>, BDHH<sup>+09</sup>, BMK<sup>+05</sup>, CBV08, CRDI07, DDZ<sup>+07</sup>, FAD<sup>+07</sup>, HFH94, RB90, RWW07, Stu70]. **implementations** [BBG<sup>+14</sup>, MP88b, NFI<sup>+08</sup>]. **implemented** [LBB<sup>+13</sup>]. **Implementing** [NMF10, SW86, Har71]. **Implications** [RS79, Tu90, Del08]. **implicit** [CCBLM12, Mic72, Shu94, Wid67]. **Importance** [DBK82]. **imposed** [Coo90].

**Improve** [LV62, FKOW16, KEKP20, YT16].  
**Improved** [BEM<sup>+</sup>92, Blu79a, CPZ63, KDT18, KTD20, Lew83, Sav90, SK80, Dan82, GB71, Mat89, SRD94].  
**Improvement** [DW58, Fle58, Lin84, RKL88b, EM94, EK08].  
**improvements** [BWB<sup>+</sup>20, HS04, JWS<sup>+</sup>09, SvBC<sup>+</sup>04].  
**Improving** [AGZ94c, FE75, KVP<sup>+</sup>20, LF77, LKL<sup>+</sup>81, MI10, Tol97, BHP17, Sit71].  
**Impurity** [GK60, KO65a, KM66, Key61b, Pri58b, KMK68, KO69a, MFPJ71]. **in-host** [BCH<sup>+</sup>16]. **in-line** [ABC<sup>+</sup>99a]. **in-memory** [EGN<sup>+</sup>19]. **In-Plane** [Blu79b]. **In-situ** [Ahn66]. **InAs** [Lud78]. **Inch** [BS70, BBT85, FMPS93]. **Incidence** [PBF60]. **Incident** [DHM75, GWB<sup>+</sup>17].  
**Incoherent** [Gef88, PLHJ70, SB62].  
**inconsistency** [Sit87]. **Incorporating** [CKE<sup>+</sup>10, Tar63, SS00]. **Incorporation** [BC60b, BC60a, BC60c, MPCF82]. **Increase** [Ano06b, AAC<sup>+</sup>06, BWB<sup>+</sup>20]. **Increased** [Sie63, KDG15]. **Increasing** [AN98, ABH<sup>+</sup>19, BM96, ON60, WYTO04, WCK<sup>+</sup>07, Nai02]. **Indelible** [Eas86].  
**Independent** [Fra83, AT78, CS84, MLMP<sup>+</sup>12, MM94].  
**Index** [Ano93b, Ano93g, Ano93h, Bax58, PC64, Ano92a, Ano92h, Ano93c, Ano94a, Ano94b, Ano94t, Ano94u, Ano95a, Ano95l, Ano97a, Ano97j, Ano98a, Ano98l, Ano99a, Ano99i, Ano00a, Ano00j, Ano01a, Ano01o, Ano02a, Ano02b, Ano03a, Ano03b, Ano05a, Ano05d, Ano06a, Ano06d, Ano07a, Ano07b, Ano08a, Ano08c, BGO03, HSL<sup>+</sup>10, KEKP20, Sit87, WL73, Bar75]. **Indexed** [KHKM64].  
**Indexing** [Bla59, SNA02]. **Indirect** [Whi70]. **Indium** [CJT62, How82, RL70].  
**Indium-Lead** [How82]. **Indium-Mercury** [CJT62, RL70]. **individual** [MHW95, RG90]. **individuals** [CLH<sup>+</sup>16].  
**indoor** [YBF<sup>+</sup>14]. **Indra** [BNN<sup>+</sup>09].  
**Induced** [Az88, DJ70, Har63, Hem74, HMR82, JD66, Lun79, DP68, FMS<sup>+</sup>92, HRC<sup>+</sup>08, HRS<sup>+</sup>95, RKL88a, Sri96, SGS<sup>+</sup>09, Tan96].  
**Inducement** [Kuh88]. **Inductance** [BRR79, Rue72, HOWP92]. **Induction** [DB79]. **Inductive** [Dan60, Wat60b, WWMS79, CCH<sup>+</sup>96].  
**industrial** [AAB<sup>+</sup>16, BOS<sup>+</sup>95, Peh69, SPP72].  
**industries** [LMHM96]. **Industry** [Car10, Gom87, Kov06, DKRS07, HZG<sup>+</sup>16, KAF<sup>+</sup>16, SP14, VAB<sup>+</sup>05, Yan07]. **inelastic** [BEH<sup>+</sup>89, EHK<sup>+</sup>89]. **inequality** [Ris76].  
**Inertial** [MR76b]. **Inference** [Wat60b, AC92, KBP<sup>+</sup>12]. **Infinite** [Ins76].  
**Influence** [BS78, BB60, BBG60, HBR85, KMH82, Kus70, Mat62b, Pen79, RRB<sup>+</sup>01, Roe66, SSG69, HBR86, vK62]. **Information** [Ano58f, Hor00, IK00, KW62, Kuh88, Leh78, LP75, Lor70, MHI98, Sea57, Sha58b, Sho04, SY73, Tof88, Wat60a, Wat60b, Win70, AKNR10, AEG<sup>+</sup>20, AN98, And10, BS03, Cha77, GDA14, GAB<sup>+</sup>08, HHH04, Joz04, Luh57, MAD<sup>+</sup>98, PSD<sup>+</sup>17, SI09, SKC<sup>+</sup>10, SHM<sup>+</sup>12, VAB<sup>+</sup>13, WR00, ZW17].  
**Information-Carrying** [Kuh88].  
**Information-Content** [MHI98].  
**Information-Theoretical** [Wat60b].  
**Infrared** [BLLS79, CSH<sup>+</sup>89, FL74, GHW70, GL62, Heb64, BWB<sup>+</sup>82, Mah93, Sek93].  
**Infrastructure** [RBB<sup>+</sup>02, AA18, AHH<sup>+</sup>14, BCG<sup>+</sup>09, BMS<sup>+</sup>17, BISN<sup>+</sup>12, CH06, CJJ<sup>+</sup>16, GCS<sup>+</sup>12, HBB<sup>+</sup>05, KAD<sup>+</sup>16, MOG<sup>+</sup>19, RRMD17, SHM<sup>+</sup>12, TCK<sup>+</sup>15, VSS<sup>+</sup>09].  
**infrastructures** [BGM<sup>+</sup>16, CFH<sup>+</sup>09, KFW<sup>+</sup>14]. **Inhibition** [GSAP17]. **Inhibition-augmented** [GSAP17]. **Inhomogeneously** [CL74].  
**Initial** [MW62, van72, BBF<sup>+</sup>04, vdP72].  
**initialization** [CNSS12]. **Initiation** [HSM84]. **initiative** [NRD<sup>+</sup>09]. **Initiatives** [Nun09]. **Initio** [Cle65a, BBK<sup>+</sup>08, Cle00].  
**Injection** [Ghe80, HFDN63, Key65, Key70, Las63, LF64, LS64, Mag73, Mar64c, PR65,



HRG80, Key71]. **injector** [JWSP06]. **Ink** [AEE77, BHR77, BT84, BHWW77, BBT83, Car77, CS85, CP77, DLK84, FBW77, LMT84, Lev77, SBT87, Tu75, Twa77, Zab77, Bru76]. **Ink-Jet** [SBT87]. **Inks** [BS78]. **Innovation** [BR81, BS03, CJK<sup>+13</sup>, GMS<sup>+12</sup>, HBP<sup>+81</sup>, KDT18, KRS<sup>+17</sup>, Viv14]. **Innovations** [HPWW81, HYA03, MT81, Num09, TCK<sup>+15</sup>, ADS72, AAC<sup>+06</sup>, ABB<sup>+15</sup>, JSM<sup>+18</sup>, VCM<sup>+20</sup>, WHC<sup>+18</sup>]. **innovative** [MZS<sup>+03</sup>]. **inorganic** [MCK01]. **Input** [Fra79, Fra80a, Ins77, TW62, Tit61, BSK<sup>+08</sup>, DWW90, HBL<sup>+02</sup>]. **Input-Output** [TW62]. **Input-Restricted** [Fra79]. **input/output** [BSK<sup>+08</sup>, HBL<sup>+02</sup>]. **InSb** [FP69, Gli69, MNP<sup>+69</sup>, RK69, TK69, Tur69]. **Insensitive** [LR65a]. **Insider** [ASR07, CLH<sup>+16</sup>]. **insight** [CFH<sup>+09</sup>]. **insights** [GB93, LDSA02, RDL19]. **Inspection** [WSW83]. **Instabilities** [Boe69, Fri69, Gum64, SSG69, Bra69, HC69]. **Instability** [Kat89, MN67b, Whi72]. **Instagram** [SPB<sup>+17</sup>]. **installation** [Lie20]. **Instantons** [CCE<sup>+88</sup>]. **institutions** [VRA<sup>+09</sup>]. **Instruction** [AST67a, Bla94, GR90, VBE94, War90, BGAJ94, EV93, KMA<sup>+20</sup>, MHI01, Mat03, SLC<sup>+97</sup>]. **instructional** [WA15]. **Instrument** [Shi85, CM19]. **instrumentalism** [HHH04]. **instrumentation** [CLP<sup>+13b</sup>]. **Instrumenting** [CRHPP09]. **insulated** [CDS73, CDS00, KM73]. **insulated-gate** [CDS73, CDS00]. **Insulating** [PDLM67, TY64]. **Insulator** [RM70, HD73, IFB<sup>+11</sup>, Sta02, SRH<sup>+18</sup>]. **Insulators** [LMD70, CKG<sup>+99</sup>]. **Integer** [Mur57, GS72b, GS72a, Joh87, Lee07]. **Integral** [LC80, Ode64, Pri58c, Swi62]. **Integrals** [CCE<sup>+88</sup>]. **Integrated** [Ame80, BSS82, GPE99, GKK<sup>+80</sup>, Gsc09, HZG<sup>+16</sup>, KL70b, KL80, KW83, LRMT95, MW80a, OCR<sup>+98</sup>, OMA<sup>+96</sup>, RSSS82, RTM65, Rot66b, Rot74, RB92, Rue79, SLJ<sup>+15</sup>, Sta83, Sta84a, Sta84b, Sta85b, Sta87, SSTF77, BNN<sup>+09</sup>, BGLM09, CBBS90, DSZ<sup>+12</sup>, FMS<sup>+92</sup>, FMP<sup>+03</sup>, Hei90, LFR05, LD72, LGF<sup>+03</sup>, MPHC90, Ngu99, OR92, PZGL91, RP14, RFB<sup>+03</sup>, Rue72, SSY12, Sri96, Sta89a, Stu70, TFJ<sup>+96</sup>, TLS<sup>+06</sup>, Vor71, Wie90, WSBL90, EGS<sup>+85</sup>, RKW99, SY92]. **integrated-circuit** [Sta89a]. **Integrating** [AFFS98, HLZ<sup>+09</sup>, RBL<sup>+18</sup>, IFB<sup>+11</sup>, KBJ<sup>+18</sup>, BGL07]. **Integration** [BL15, BBH<sup>+67</sup>, Lev66, RR83, SKS<sup>+20</sup>, Thr65, War63, ABB<sup>+99</sup>, Buc99b, CAC<sup>+13</sup>, FW67, HKD06, IJV19, KAD<sup>+08</sup>, KYY<sup>+08</sup>, MDZH<sup>+02</sup>, MLM<sup>+19</sup>, NMTP14, PSP06, SMP<sup>+04</sup>]. **Integrity** [RM10, Irv89]. **Intel** [BCC<sup>+01</sup>]. **Intel-based** [BCC<sup>+01</sup>]. **Intelligence** [Gri92, Luh58b, AAB<sup>+16</sup>, BGM<sup>+16</sup>, CM19, DNZ<sup>+19</sup>, HJW<sup>+16</sup>, MLM<sup>+19</sup>, PL20, Rao16, RC09, SSK<sup>+16</sup>, ZBG<sup>+10</sup>]. **Intelligent** [GR58, WGF<sup>+06</sup>, YMR14, FGH<sup>+06</sup>, SN15, IMSV10, RKM02]. **intensities** [Zie98]. **Intensity** [SA66, ZS03]. **intensive** [AHN<sup>+03</sup>, AHH<sup>+91</sup>, BBPS91, GR92, SSB<sup>+12</sup>]. **Intent** [HRZ14]. **Intent-based** [HRZ14]. **intentionally** [Irv89]. **inter** [SBG<sup>+13</sup>]. **inter-application** [SBG<sup>+13</sup>]. **Interaction** [Gre79, Les71, VMH<sup>+83</sup>, BBI94, Tan96]. **Interactions** [Kau81, Kuz70, Laf80, KWN01, TOKN18]. **Interactive** [AS74, Cha87, Dic91, Eas75, Far83, HMW74, PWFB91, PW72, SSL73, Sow84, AEZ84, Bal91, BKM<sup>+69</sup>, BL15, CSW73, FGW81, Kan15, KGT88, Koe18, NMH<sup>+07</sup>, PS91, SA98]. **interagency** [HS11]. **Interatomic** [Col59, HB74]. **Interatomic-Force** [Col59]. **Intercalate** [Kau81]. **intercalated** [ZVW<sup>+11</sup>]. **Intercept** [ABCR65]. **Interconnect** [LCHL95, MDZH<sup>+02</sup>, Sec95, HDW<sup>+07</sup>, HBB<sup>+07</sup>, IJV19, MSB<sup>+04</sup>, WDA05]. **Interconnected** [Str83, FGT91]. **Interconnection** [BSS82, BBH<sup>+67</sup>, Fra87, Kua95, ABC<sup>+05</sup>, ESHM95, HBL<sup>+99</sup>,

KAB<sup>+</sup>05, LFR05, RGPP95, The00].

**Interconnections**

[KLC84, Rue79, AUD<sup>+</sup>98, DKS<sup>+</sup>95, Gol69, MCAW95, NL69, SAT<sup>+</sup>08]. **interconnects** [BIK<sup>+</sup>05, DSM<sup>+</sup>99, YCB05].

**Interdependence** [BLR84]. **INterface**

[LH03, Ada80, BBT85, DV74, FT77, Sow76, AEH<sup>+</sup>04, BCF<sup>+</sup>07, HKLM97, HSH<sup>+</sup>88, HBL<sup>+</sup>99, HBL<sup>+</sup>02, HPZ<sup>+</sup>05, Led71, Lew12, Mir61, Okt71, Sek93, VWPB90, CMW92, SBJS15]. **Interfaces**

[CW78, HKM<sup>+</sup>86, KG80, Ker64, BBF<sup>+</sup>05, KJSG<sup>+</sup>88, MYKK<sup>+</sup>17]. **Interfacial**

[RF78, RRB<sup>+</sup>01, Tu90]. **Interfacing**

[ABM<sup>+</sup>01]. **Interference**

[Kob70, KT73, Mid70b, RP67, SH57a, ALH95, Bus71, Cha73a, Gou89, Pau89].

**interference-suppression** [Bus71].

**Interferometer** [Fan64, FL74].

**Interferometric** [PSH80]. **Interferometry**

[GHW70, Le 62, VG74, AL76, GLCW93, LS72, WS72]. **interferon** [NBF<sup>+</sup>00].

**interferon-** [NBF<sup>+</sup>00]. **Interim** [Var89].

**interlayer** [Far98]. **Interleaving** [Gra71].

**interlock** [PV93]. **Intermetallic**

[BTH62, CGHK77]. **intermiss** [Thi88].

**Internal**

[BP75, DV74, RG90, FR01, Hei90, Rab69].

**Internet** [JS14, NMV<sup>+</sup>09, WLKS98].

**Internet-scale** [NMV<sup>+</sup>09]. **Interpolation**

[LR65b, MM75b, AW82]. **Interposer**

[MR79]. **interpretable** [HHC<sup>+</sup>18, VVHL16].

**Interpretation** [Far83, Far91, Leh78,

Pri58c, FAFL91, GLCW93]. **Interpreter**

[SW86, AT78]. **Interrogation** [Far87].

**interrupt** [AA18]. **intersections** [O'C89].

**Intersymbol** [Kob70, KT73]. **intervention**

[HHC<sup>+</sup>18, RSS<sup>+</sup>15]. **intracellular** [PSP06].

**intrasystem** [DAS<sup>+</sup>94]. **Introduction**

[Cro70, Fer12, FXB<sup>+</sup>10, GK60, HW12, JB07, KDH<sup>+</sup>05, LS75a, Mil84, MT84, Par98, PC85, Pen91, SS01, YS64, AN98, Dat98a, FM75, FT98, FBG12, How92, Lan84a, Lan84b, LBC<sup>+</sup>14, Tof04, CS97]. **Intuitive**

[EWBR09]. **Invalidating** [Lom75].

**Invariant** [Ull65]. **Inventors**

[Ano67n, Ano67o, Ano67p, Ano67q, Ano67r, Ano67s, Ano94c, Ano94d, Ano94e, Ano94f, Ano94g, Ano95d, Ano95e, Ano95f].

**Inventory**

[BCE<sup>+</sup>07, KSB07, Sop59, KBA07, el 69].

**inverse** [HA00, Sit71, Tom72]. **Inversion**

[FT64, SS00]. **investigated** [Dür94].

**Investigation** [AS74, MVK85, SGC<sup>+</sup>87,

WB70, BNT86, BHHO59, Shi72].

**Investigations** [GMW80, SH63].

**investment** [GRS13]. **Iodine** [BC60c]. **Ion**

[DG93, LG88, Lev66, RGL75, Bag94,

Cop00a, KBF<sup>+</sup>92, Kuo92, LCL<sup>+</sup>98, RKL88b,

Spo94, ZCK71]. **ion-beam** [RKL88b].

**ion-beam-processed** [LCL<sup>+</sup>98].

**Ionization** [KO65b, Pen79]. **Ions**

[CGHK77]. **IoT** [PL20]. **IPV** [GDB16]. **Ir**

[HKvG<sup>+</sup>11]. **Iron**

[BB60, KS66, KP63, MHS62, NBRB70,

PBF60, SK69, Sha58a, SOC59, KWT<sup>+</sup>11].

**Iron-Nickel** [NBRB70]. **irradiation**

[SMVK90]. **Irredundant** [(Ga57].

**irregularly** [AG72]. **Irreversibility**

[Lan61, Lan00a]. **ISA** [CT06]. **islands**

[WTS<sup>+</sup>11]. **Isn't** [Knu90]. **Isolated**

[CGR88, LS78]. **Isolation**

[BH82, OG80, DHK00, HB73, Vor71].

**Isometries** [CLW79]. **isomorphism**

[HHH04]. **isoparametric** [DF15]. **Isotope**

[GM62]. **Isotropic** [Blu79b, Che64, CS65a].

**Issue** [Ano60f, Car81, MT84, Ano67h,

Ano67i, GM60, Mar62]. **Issued**

[Ano66n, Ano66o, Ano66p, Ano66q, Ano66r,

Ano67n, Ano67o, Ano67p, Ano67q, Ano67r,

Ano67s, Ano94c, Ano94d, Ano94e, Ano94f,

Ano94g, Ano95d, Ano95e, Ano95f]. **Issues**

[Ano57j, Ano58g, Ano58h, Ano58i, Ano59e,

Ano60g, Ano60h, Ano61e, BBD<sup>+</sup>02,

FGM<sup>+</sup>83, Ano62d, Ano63e, Ano66g, Ano66h,

Ano66i, Ano67j, Ano67k, Ano67l, Ano67m,

Lee07, MNWH20, ODK<sup>+</sup>99, PPG<sup>+</sup>01].

**IT-enabled** [DDDKW12, Vay12]. **Italian**

- [DFM<sup>+</sup>88]. **Iterated** [MN70]. **iteration** [GON<sup>+</sup>06, Mir72]. **iterations** [Lan66]. **Iterative** [ET86, HMW74, Jam89, Lin84, TC84, BS71b]. **Iterative-Improvement** [Lin84]. **Iterative-Interactive** [HMW74]. **Itinerant** [Hon70]. **IUPS** [NNN<sup>+</sup>06]. **IV** [CFG64]. **iWARP** [NMF10].
- J** [ACG<sup>+</sup>87, Ano93c, Ber76a, DCB77, Lan96, Sta75, TFJ<sup>+</sup>96, Wie76, WH94]. **J90** [PBK96]. **Janeiro** [TPC<sup>+</sup>13]. **Japanese** [MMUS88, TSNF88]. **Java** [AAB<sup>+</sup>10, SSMGD10, TWX<sup>+</sup>10]. **JBIG** [CM98, Mar98]. **JBIG-ABIC** [CM98, Mar98]. **Jeopardy** [Lew12]. **Jet** [AEE77, BS78, BHR77, Bog79, BT84, BHWW77, BBT83, Car77, CP77, DLK84, FBW77, Lee74, Lee77a, LMT84, Lev77, Pim76, PL77, SBT87, TC63, Twa77, Zab77, Bru76, MKJM93]. **Jets** [Fro84]. **Jitter** [BS85, Nob95a]. **job** [DKR12, SHL<sup>+</sup>20]. **Jobs** [Cho75]. **joined** [Okt69]. **joining** [Mil69, Mil00]. **Joints** [CN79, KLS<sup>+</sup>05]. **Josephson** [Ame80, Ana80, BKM80a, BJMO80, BMWL80, BKM80b, Bro80, Don80, FHVZ80, Ghe80, Gou89, GKK<sup>+</sup>80, GMW80, KL80, MW80a, Mat80, Tsu80, ZG71]. **Journal** [Ano67v]. **Journals** [Ano57k, Ano57l, Ano57m, Ano57n, Ano58j, Ano58k, Ano58l, Ano58m, Ano59f, Ano59g, Ano59h, Ano59i, Ano60i, Ano60j, Ano60k, Ano60l, Ano61f, Ano61g, Ano61h, Ano61i, Ano62f, Ano62g, Ano62h, Ano63f, Ano63g, Ano63h, Ano63i, Ano66s, Ano66t, Ano66u, Ano66v, Ano66w, Ano66x, Ano67w, Ano67x, Ano67y, Ano67z, Ano67-27, Ano94r, Ano94s, Ano94o, Ano94p, Ano94q, Ano95i, Ano95j, Ano95k]. **journey** [UDP<sup>+</sup>12]. **JSP** [Tsu80]. **Junction** [KMO64, KO65a, KO65b, KO66, KO67, KO69b, KO70, MG63b, PR65, Rei66, TDM<sup>+</sup>87, VCP80, Ano06c, GP06a]. **Junctions** [BKM80a, BS69, BJMO80, BMWL80, BKM80b, CL64, CSE66, Dum63, FPS66, Gef88, GS80, Han86, Lik88, OMAW60, PF66, SAL63, GP06a, MC68, OKH<sup>+</sup>02, Sun06]. **Just** [Kan15, SMC<sup>+</sup>14]. **Just-in-time** [Kan15, SMC<sup>+</sup>14]. **justification** [Gil60].
- Kalman** [God74]. **Kantorovich** [RS66]. **Kapitza** [Lit62]. **kappa** [Hos94]. **Keeper** [RK66]. **Kenya** [FKOW16]. **kernel** [NMF10]. **Kerr** [Shi73]. **Key** [ABC<sup>+</sup>99a, Eas86, KAB<sup>+</sup>12, SR63, vKCD<sup>+</sup>10]. **Key-Sequence** [Eas86]. **Key-to-Address** [SR63]. **Keyboard** [DWGC85, Yha75]. **Kiln** [MS67]. **Kinematics** [TO77]. **kinetic** [Hun71]. **kinetics** [GI88, SR71]. **kinofom** [LHJ69]. **Kinofoms** [PLHJ70]. **Kittyhawk** [AUW<sup>+</sup>09]. **knapsack** [GS72b, GS72a]. **knit** [MDMN10]. **Knots** [Ins76]. **Knowledge** [BP92, FLDC86, HKM<sup>+</sup>86, Kuh88, Wal86, ADG<sup>+</sup>92b, FKGF12, FGP<sup>+</sup>85, FJSS89, GLS86, Nic92, WN92]. **Knowledge-Accumulating** [Kuh88]. **knowledge-acquisition** [Nic92]. **Knowledge-Base** [HKM<sup>+</sup>86]. **Kr** [BKB76]. **Kraft** [Ris76]. **Kutta** [War63]. **KWIRE** [Elm84].
- L** [ABC<sup>+</sup>05, AAC<sup>+</sup>05, ADG<sup>+</sup>05, BGH<sup>+</sup>05, BBK<sup>+</sup>08, BHD<sup>+</sup>05, CBB<sup>+</sup>05, CNC<sup>+</sup>08, CBC<sup>+</sup>05, DT08, DLJ<sup>+</sup>08, EFR<sup>+</sup>05, FKL<sup>+</sup>08, GBC<sup>+</sup>05, GBB<sup>+</sup>05a, HBB<sup>+</sup>05, IBP<sup>+</sup>05, KHZ<sup>+</sup>08, LKFU05, MSW<sup>+</sup>05, MAA<sup>+</sup>05, OBB<sup>+</sup>05, PMS<sup>+</sup>08, WAB<sup>+</sup>05]. **lab** [DFF<sup>+</sup>15]. **Laboratory** [Kov59, LL83, Ros03, Gra71, LS69, Mol69, PMS<sup>+</sup>08]. **Lagoon** [SCRV78]. **Laminated** [Blu79b]. **LAN** [VWPB90]. **Land** [CRM02]. **Landau** [Dou62, Sch89]. **Landauer** [SS88]. **Landsat** [DBK82]. **landscape** [EHLSW01]. **landscapes** [MM91]. **Langevin** [Gar88]. **Langmuir** [RSSH82, TZZ<sup>+</sup>11]. **Langmuir-Blodgett** [RSSH82]. **Language** [All81, ADST78a, BS06, BHP83, BKU88,

DFM<sup>+</sup>88, Hei76, KRD<sup>+</sup>14, Kin61, LG78, Leh78, LN79, Pet76, Pla76, SFT78, Sow84, AKB<sup>+</sup>17, ADST78b, ARS<sup>+</sup>17, BCD<sup>+</sup>17, BHP17, CFK<sup>+</sup>91, CGH<sup>+</sup>17, Den80, Kel73, KVP<sup>+</sup>20, MIL<sup>+</sup>18, NMTP14, SMS80, TYSS19, WN92, HAG<sup>+</sup>13]. **Languages** [Lom76, Luc81, MO84, Sam81, AR87, CGS61, Dun57a]. **LANs** [BS85, CS03]. **Lanthanide** [GSG<sup>+</sup>90]. **Laplace** [KRC68, LC80, Lew75, Sug59]. **Laplacian** [KJP11]. **laptop** [LGF<sup>+</sup>03]. **Large** [Ast58, BSS82, BHP83, Bra64, BBH<sup>+</sup>67, CD85, DFM<sup>+</sup>88, DO74, DAB<sup>+</sup>97, EMM<sup>+</sup>18, ETWO08, GHK67, Mer88, Mon82a, RBB<sup>+</sup>11, Sch80, Sta89b, Wre83, ABM88, BKF<sup>+</sup>16, CBK<sup>+</sup>98, CHG04, Dav69, Elg11, HdTR06, HBT<sup>+</sup>16, KJS09, Kum98, LSW13, MSB<sup>+</sup>04, PS91, RBB<sup>+</sup>02, TWRW89, TBS09, VNT16, Hud76]. **Large-Area** [DO74, Sta89b]. **Large-field** [DAB<sup>+</sup>97]. **Large-Scale** [BSS82, BBH<sup>+</sup>67, CD85, Mon82a, EMM<sup>+</sup>18, ETWO08, RBB<sup>+</sup>11, BKF<sup>+</sup>16, HdTR06, HBT<sup>+</sup>16, KJS09, LSW13, RBB<sup>+</sup>02, VNT16]. **large-tree-search** [CHG04]. **Large-Vocabulary** [DFM<sup>+</sup>88]. **Larger** [CAS<sup>+</sup>91]. **Larger-scale** [CAS<sup>+</sup>91]. **Laser** [Bro78, BH79, CCC<sup>+</sup>79, Chu82, Cro79, DN97, EHMW81, FL74, FLR77, Gab70, Gar64, HHM66, Har63, HD69, HMR82, HDK<sup>+</sup>11, HFDN63, Key65, Key70, LS64, Lun79, LSH79, SA66, SLLP64, SLHM67, Zwe65, vAR82, DAB<sup>+</sup>97, DP68, HA71, Key71, Mar71, Sor79, Sor00, SPP97, Spr71, TWRW89, WW71, vS98]. **Laser-Enhanced** [Chu82, vAR82, vS98]. **Laser-excited** [HDK<sup>+</sup>11]. **Laser-Induced** [Har63, HMR82, Lun79, DP68]. **Laser-Optical** [FLR77]. **Laser-pumped** [SLHM67]. **Lasers** [AH79, Cha79, DC82, Har65, JWL82, KMCY82, Las63, LF64, Mar64c, MG63b, PR65, SL67, TB82, CBCM79, MG68]. **Latch** [Cor84, Gra80, Mat85]. **Latch-Up** [Mat85].

**latencies** [BS06]. **latency** [CHJ<sup>+</sup>18, FGG<sup>+</sup>13]. **Latent** [Dui59, Sch62a, YCB05]. **Lateral** [Gil79, LJ92]. **Latin** [HBC70]. **Lattice** [ASV76, BKB76, CERS76, CCD57, Dod63, Pic87, Seg62, SdS89, WY76]. **Lattice-gas** [SdS89]. **Launch** [BDH76]. **launches** [RMR94]. **Law** [Col59, Swi62, CPD<sup>+</sup>09]. **Layer** [BW83, Kue90, Lee77a, RWC80, RVV88, Wre83, CDD<sup>+</sup>10]. **Layered** [CS65b, Sch89]. **Layers** [FT64, Gar86, KLBP64, Mid70b, O'H78, PW78, TY64, CU98, PM72, Whi93]. **Layout** [Coo84, FLKA84, BGH<sup>+</sup>05]. **Layouts** [Lew80]. **LC** [YL98]. **LCD** [JPTW92, KSK98]. **Lead** [GL62, How82, JC63, Vil82, BCSE89, KLS<sup>+</sup>05, SAT<sup>+</sup>08]. **lead-free** [KLS<sup>+</sup>05, SAT<sup>+</sup>08]. **Lead-Thallium** [GL62]. **leadership** [ADF12]. **Leading** [HM90]. **Leading-zero** [HM90]. **leads** [EG00, Gus97]. **Leakage** [GT80, VCP80]. **leaks** [SBG<sup>+</sup>13]. **learn** [BBMR19]. **learned** [DRB<sup>+</sup>20, Mer04]. **learner** [CFP20]. **Learning** [BBD<sup>+</sup>17, Fri58b, FDN59, OD17, RSS<sup>+</sup>15, Sam59, Sam67, WM92, BHW<sup>+</sup>17, BSRG17, CK17a, CFS<sup>+</sup>19, CNP<sup>+</sup>17, CNP<sup>+</sup>15, DBNK<sup>+</sup>17, EGN<sup>+</sup>19, Fri58a, GKT17, HKD06, KCML13, LRMT95, LGBV17, MBK<sup>+</sup>15, NG17, NML<sup>+</sup>20, NBM<sup>+</sup>19, RK15, Sam00, SCC<sup>+</sup>15, TGL<sup>+</sup>12, ZBBB17, CNP<sup>+</sup>15]. **Least** [Cio86, Goz94]. **Least-Squares** [Cio86, Goz94]. **Leduc** [Pri58a]. **Lead** [Jon70, Bru78, MJJ69]. **legacy** [HS11]. **Legendre** [Rob67]. **Legendre-Clebsch** [Rob67]. **Legion** [GHN04]. **Lemmas** [Kuh60]. **Length** [Don81, Fra70, GLP76, DY89, JVP<sup>+</sup>90, SHWK<sup>+</sup>90]. **Lens** [RHM63, TH11, Bru97]. **lenses** [DH69, TW69]. **lesion** [BSRG17]. **Lessons** [DRB<sup>+</sup>20, DSZ<sup>+</sup>12]. **Letter** [And60, BC60b, BBT60, BB60, BD62, Bre60, BA62, BLB<sup>+</sup>63, BN63, Car60, COC61, Con60, CK63, Dam66, Die62, Dod63, Dum63, FMP61, FK62, FC63,

Has62, IM60, Ken61a, Key61b, KW62, KKK61, KP63, Ku63, Kue60, LDDDB63, Le 62, Lei62, MW62, MVB62, Mar60b, Mat62b, MS60a, MP61, Mel60a, MWN63, MHS62, MG63b, NM62, ON60, Pal61, Par60, PK61, Rad62, Sch67, Seg62, Smi60, SB62, SS61, Tid62, Tit63, WKW60, Yu61]. **levee** [SvNH13]. **Level** [BCK13, Bru78, Cle83, FHL+82, Sam81, SH69, AW82, Agn02, BOS+95, BSJ+13, BBS+03, DSW71, GON+06, GPL+92, HPW+02, JK93, KYY+08, Pat89, RBK+08, SM16, SG95, Wil97, WBH+04]. **Levels** [Fle58, KLC84, Sop59, KSB07]. **Lewy** [Lax67]. **LEXX** [Cow87]. **Li** [Les71]. **libraries** [Agr01, Aus90]. **Library** [LS75b, BPS+96, MBC+96]. **Life** [ABD+14, BB09, Kov06, Kuh88, CDS+19, McC69]. **lifecycle** [BGJ+17, KAA+18, WTT+14]. **Lifetime** [FL59]. **Lift** [HCS80, MW80a]. **Lift-Off** [HCS80, MW80a]. **liftoff** [CH82, HMM82]. **Ligand** [STW+08]. **Light** [BLB+63, CJ78a, Dum63, FPS66, Her66, Key63, KHKM64, LDDDB63, LS64, MWN63, PRY65, SW98, SB62, VG74, BLDM97, CU98, CA01, DSRC98, DP68, ESS+20, HP01, Lax67, LS72, Rab69, RRB+01, RDD+98, SGY+98, SST+98, SS00, Shi73, TMS98, YL98]. **Light-absorbing** [Her66]. **Light-Activated** [PRY65]. **Light-Emitting** [BLB+63, Dum63, LDDDB63, MWN63, FPS66, CA01, HP01, RRB+01]. **light-source** [DSRC98]. **Light-Valve** [SW98, SST+98]. **Lightly** [Lan63]. **lightwave** [BGO03]. **like** [Key61b]. **likelihood** [Boh70, EÖH10, Sta73]. **likely** [OKH+02]. **Limit** [Heb64, Tau02, Var19]. **Limitations** [LS64, BJW72, CBBS90]. **Limited** [BJM+06, Fra70, Mag73, MS60a, HC69]. **Limits** [Bro88, Key88, DDA+93, DAS+94, Emm97, EHPS05, Fra02, Key00, NBF+16, PK88, Sta02]. **LiNbO** [HD69]. **Line** [BF77, Ber64, Dah67, GHW70, GC81, GM63, Hop61, SAL63, Sve78, Tay79, Tod78b, ZL87, ABC+99a, ATW97, BH95, BP74, BFH+93, HRW69, MBC+96, RS94, Rei69, Tib93, Wee72, WC69, WWA+98, YG81]. **Linear** [Ast67b, CW72, ET86, GK64, MY67b, MW70, Nus77, Pim76, Pli66, Pri57a, Sch85, Sie63, Tuc60b, AW82, AGZ94c, BE03, BM68, CIE+03, DWW90, GB71, Gus76a, Gus76b, Gus97, Gus03, Las61, May60]. **linear-algebra** [Gus97]. **Linearization** [Ger73]. **Linearly** [KO67]. **Linearly-Graded** [KO67]. **Lines** [Gru79, Hor76, Mul67, Ost84, Wit85, Bra68, Cha88, DKR+90, Ho73, HRS+95, Kep75, Lan60]. **linewidth** [CAC+95]. **linguistic** [BC00]. **Link** [Cro79, MT77, DRSM15]. **Linked** [CT76]. **Links** [TW62, CBB+04, FMP+03, GLOS92, KACS95, PK03]. **Linpack** [KGBB09]. **Linux** [BBK+16, BBB+20, ZST+07]. **LinuxONE** [BBB+20]. **Liquid** [BL62, Bog79, DC82, Lan85, Lee74, Lee77a, McG92, Pim76, PL77, RL70, SW98, Spr63, Tu75, AT00, APO92, AIH+98, CJ78a, CJ78b, How92, KFYU92, KRC68, LL98, LCL+98, NSOO98, RDD+98, SHWK+90, SST+98, SS00, TSH92, TCCH98, WWA+98, Yan71, YHA71]. **Liquid-Crystal** [DC82, McG92, SW98]. **liquid-nitrogen** [SHWK+90]. **Liquids** [MW62, DP68, Shi73]. **Literary** [Tas57, Luh57]. **Literature** [Luh58a, BWK20, MIL+18, Bax58]. **Lithographic** [DMWW77, MPS77, BDS+97]. **lithographical** [BTWY92]. **Lithography** [BLDM97, Bro88, Dav80, Gil84, HWC88, JWL82, Par80, PS80, RFK+97, Rot80, War93, AWHK97, Arc93, BRB+01, BGK+82, Bru97, CS97, DEG+01, GHP+93, GC93, HMM97, Ito01, LL93, LMW+01, MBB+01, PGN88, See93, SMVK90, SGL+97, SRO93, SS93, Spi93, Wil93]. **lithological** [BBPS91]. **Lived** [SH84]. **LLNL** [CCD+13]. **Load** [Chi60a, Con58, Con60, Mar59, MR76b, BZ06a, CHG04, EV93].

**load-balancing** [CHG04]. **Load-Sharing** [Chi60a, Con58, Con60, Mar59]. **Loaded** [GM63, HG83, Lan63, EC71]. **Loading** [van72, BBF<sup>+</sup>04, CGLL93, GLCW93, vdP72]. **Loads** [ALL77, BGT74, KS01]. **Local** [Cro79, DJBT81, Fra83, HS85, HS81a, Str83, BSRG17, MCAW95, OCB<sup>+</sup>90, RC17, ST89, SJZ<sup>+</sup>15]. **Localized** [FWW88, Hon70, JT66, Lan88, Lan57, Lan96, Lan00b]. **Localized-Field** [JT66]. **Location** [DYHS78, LMPP69, YBF<sup>+</sup>14]. **Locked** [KHBC66]. **Locks** [HS82]. **locus** [Dan66]. **log** [McN94, RRMD17, WLH<sup>+</sup>17]. **log-structured** [McN94]. **Logarithms** [Che72]. **Logic** [AFR62, Bei92, Bra87, CGG<sup>+</sup>64, Cle83, DJBT81, DBG<sup>+</sup>84, DHSC64, DHSC00, DLW86, Don80, Don81, EL80, EL83, GRS87, Ghe80, Gia66, GLL80, GHKO57, HMW74, Jon75, KL70a, KC66a, Koz81a, LM80, LBH<sup>+</sup>75, MS05, Mat80, NW64, RWL81, SKB<sup>+</sup>96, TC84, Vil82, Voi65, Wei79, Woo75, AAH68, BEM<sup>+</sup>92, BJM<sup>+</sup>06, BGL<sup>+</sup>92, BMT<sup>+</sup>90, CCJH81, CAC<sup>+</sup>95, DBG<sup>+</sup>00, Di 88, Don74, Fag77, FM75, FN71, dTGHC92, HCO74, HBB99, KL63, KCA<sup>+</sup>95, Koz81b, MTB<sup>+</sup>90, WPL<sup>+</sup>12, Wei91]. **Logic-based** [MS05]. **logic/firmware** [WPL<sup>+</sup>12]. **Logical** [AHJ<sup>+</sup>57, Ben73, BDH83, Bon62, DMN<sup>+</sup>59, PR59a, SGK04, Swa60, WW75, Win62, Zul01, Ber76a, Wie76, WYTO04]. **logistics** [BCE<sup>+</sup>07, BKP82, SS20, SCH<sup>+</sup>09]. **Lognormal** [NB61a, NB61b]. **Long** [Kuz70, SH84, BBC<sup>+</sup>08, DKS<sup>+</sup>95, GCL<sup>+</sup>19]. **Long-Lived** [SH84]. **Long-Range** [Kuz70]. **long-term** [BBC<sup>+</sup>08]. **Longer** [MG63a]. **Look** [Kin61, LT70, CGS61, Dan66]. **Look-Ahead** [LT70]. **Look-up** [Kin61, CGS61]. **Loop** [Ben59, MS67, WC75, BSSZ76, BCH<sup>+</sup>16, Cov92, Hip70, ST89]. **Loops** [BA62, CT76, MKP73]. **Lorenz** [Pri57b]. **Loss** [Kar74, Las63, MVK85]. **losses** [Yas07]. **lossless** [Bra68, Ho73]. **Lossy** [GC81, DKR<sup>+</sup>90]. **lots** [NBF<sup>+</sup>16]. **love** [Mer04]. **Low** [BH89, CFH64, CNC<sup>+</sup>95, CHJ<sup>+</sup>18, Cre58, GM62, GBB<sup>+</sup>05b, HOWP92, HS91, Ins77, Jon65, Jon70, KDBT60, KBC<sup>+</sup>03, MJJ69, Mey90, Mey00a, MPD86, RL70, SKB<sup>+</sup>11, SCYK78, Tay81, Tro00a, Bea90, BJM<sup>+</sup>06, CNL<sup>+</sup>19, CT06, DTTK95, EB91, EO13, FGG<sup>+</sup>13, HSS<sup>+</sup>10, JK93, LZZ<sup>+</sup>16, LCHL95, MZS<sup>+</sup>03, MHK<sup>+</sup>11, NHKI03, PZK<sup>+</sup>03, SAT<sup>+</sup>08, SN02, SKSP06, SPR<sup>+</sup>95, SCG<sup>+</sup>13]. **Low-cost** [GBB<sup>+</sup>05b, HSS<sup>+</sup>10, LCHL95]. **Low-End** [Tay81]. **Low-Energy** [Jon65, SKB<sup>+</sup>11, Tro00a, MHK<sup>+</sup>11]. **Low-field** [BH89]. **Low-inductance** [HOWP92]. **Low-latency** [CHJ<sup>+</sup>18, FGG<sup>+</sup>13]. **low-margin** [LZZ<sup>+</sup>16]. **low-noise** [DTTK95]. **Low-Operating-Voltage** [MPD86]. **Low-overhead** [HS91, EO13, SKSP06]. **Low-power** [KBC<sup>+</sup>03, BJM<sup>+</sup>06, CT06, MZS<sup>+</sup>03, PZK<sup>+</sup>03, SPR<sup>+</sup>95]. **Low-temperature** [Mey90, Mey00a, Bea90, SN02]. **Low-Toxicity** [RL70]. **low-voltage** [NHKI03]. **low-volume** [SAT<sup>+</sup>08]. **Lower** [DH73, FL75, LF77]. **LPE** [Lew78a]. **LRU** [BK75]. **LSI** [CHS82, FS82, KMH82, Mon82a, OK82, Rot82, Sak79, Sta76, Sta00, Ver80]. **LSS** [DBG<sup>+</sup>84, DBG<sup>+</sup>00]. **LSSD** [BTP<sup>+</sup>90, Cor84, EL83, LSF84]. **LT1280** [Bar83, PW83]. **LTO** [Jaq03]. **Lubricating** [Lan85]. **Lubrication** [TT74, VG74, BHHO59, Gro59, Mat95, Mic59]. **Luminescence** [PF66]. **Lumped** [Rut59]. **Lumped-Parameter** [Rut59]. **Lung** [Tay57]. **lysozyme** [ZEH<sup>+</sup>08]. **LZA** [HM90]. **M** [Don00, BDN<sup>+</sup>02, Bra72b, HWC88, PZK<sup>+</sup>03, SHWK<sup>+</sup>90, SWC<sup>+</sup>95, TMF<sup>+</sup>95, ACM<sup>+</sup>89, Yet89]. **m-gate-length** [SHWK<sup>+</sup>90]. **MAA** [Lye77]. **Machine** [AST67a, Ast67b, Bax58, Fri58b, FDN59,

Gro90, HF78, HKD06, LH57, ND57, RR83, Sam59, Sam67, WM92, ZBBB17, AT78, Bei92, CGS61, Fri58a, HM71, MYKK<sup>+17</sup>, NML<sup>+20</sup>, OD17, Sam00, SSMGD10, ZY72, LH00, ND00, VBE94].

**machine-independent** [AT78].

**Machine-Made** [Bax58]. **machine-printed** [HM71]. **Machines** [Bau84, BMS80, GR58, Gum83, SH57a, FHPR01, PLS20]. **Macro** [GLL80, HY84, MM82, Ver80, SPR<sup>+95</sup>].

**macromolecules** [HMK01]. **Macros** [Jon75, Sch80]. **Made** [Bax58, BA70, SBF<sup>+97</sup>]. **Magic** [CSS83, Par98]. **Magnet** [JT66]. **Magnetic** [AKK<sup>+67</sup>, Adl70, ABK89, Ahn66, ABPS66, Azb88, BTW62, BBP72, BBG60, Blu79a, Boy60, BBKW86, BS70, CDS<sup>+86</sup>, CHBH85, Cha62, CLW80, CC76a, Dav77, DP59, DPW60, Die62, Dou62, DSSS64, EGS60, Fan61, FLP90, Flu67, FP57, FK62, GLS67, Goo62, HPWW81, Hoa58, Hoa61, KPST61, KJMS67, Kro58, Ku63, KHBC66, Kus70, Kuz70, LL83, LR65a, Map62, MPST66, Mat70, MP61, Met70, Mid65, Mid66, MW67, ND57, ODR70, OHSP76, PW67, Par60, PH74, Pat75, Pat85, PFS<sup>+70</sup>, PSS67, RK66, SSW65, SH57b, SH57c, Sch85, Sea58, Sie63, Sko58, Slo66, SM66, SHSY90, SHSY00, SN98, TW74, Tin62, TH64, Whi70, WCB<sup>+86</sup>, WY76, AF68, AW98, Ano70b, Ano06c, BP88, BW81b, BS03, Co090, Dec90, DPW00, EÖH10, EKS<sup>+04</sup>, FCH70, GP06a, GDR70, HJS98]. **magnetic** [Hoa00, Hsi99, ICO71, Jon98, KT70, Kob71, Lew73, Meh89, NDM<sup>+04</sup>, ND00, OCR<sup>+98</sup>, Par98, Pat89, RE71, Ste81, SHCS05, TB00, TFL<sup>+98</sup>, Vin81, Yan71, van89].

**Magnetic-Core** [FP57]. **Magnetic-Disk** [ND57, ND00]. **Magnetic-Field** [EGS60]. **Magnetic-Field-Induced** [Azb88]. **Magnetic-Recording-Head** [Sea58]. **Magnetically** [NW64, ETWO08]. **magnetism** [KIF<sup>+89</sup>]. **Magnetite** [Sie70]. **Magnetization** [DP59, KG63, Mee67].

**magnetized** [YTF<sup>+11</sup>]. **Magneto** [Beb62, WB70, Bro72, Pat72]. **Magneto-Optic** [Beb62, Pat72]. **Magneto-Optical** [WB70, Bro72]. **magneto-resistance** [Far98]. **Magneto-resistive** [BCRT74, CPL<sup>+74</sup>, Hem74]. **Magnetostatically** [Cha62]. **Magnetostrictive** [Pre66]. **Magnetotransport** [SKEG<sup>+98</sup>]. **magnets** [YTF<sup>+11</sup>]. **Magnitude** [Par80, CIE<sup>+03</sup>]. **Main** [Gha75a, GMW80, PSS67]. **Mainframe** [AK82, DP13, EDGL<sup>+13</sup>]. **Maintaining** [Now02, Tom72]. **maintenance** [CHMW07, WLH<sup>+17</sup>]. **Majority** [LM80]. **Majority-Logic** [LM80]. **Make** [GW57a, GW57b]. **maker** [MD12a]. **Making** [CP91, CAS<sup>+91</sup>, CASP91, ESI<sup>+12</sup>, Kis03, Pen91, PBBL07, MAG<sup>+01</sup>, PW72, RDL19]. **maleimide** [GA88]. **malicious** [APRS16, VNT16]. **malware** [HJW<sup>+16</sup>]. **Man** [BA70]. **Man-made** [BA70]. **Managed** [CJJ<sup>+16</sup>, ISV16, KAA<sup>+18</sup>, Pon17, VSS<sup>+09</sup>]. **Management** [Ano20d, CT76, GLP76, LS76a, Pri07, RM10, Skl76, AAB<sup>+14</sup>, AEG<sup>+20</sup>, ABB<sup>+12b</sup>, BKN10, BWK20, BMD<sup>+20</sup>, BPS81, BGM<sup>+16</sup>, BSD<sup>+20</sup>, BNN<sup>+09</sup>, BNSG09, BFRT13, BHH03, BBB<sup>+05</sup>, BM96, BGJ<sup>+17</sup>, Car10, CHH<sup>+01</sup>, CTD<sup>+16</sup>, CNP<sup>+15</sup>, DB20, DM03, DJL<sup>+16</sup>, DYK10, EB06, EWBR09, FGK<sup>+07</sup>, FWR<sup>+11</sup>, FM10, FGG<sup>+13</sup>, FLMKS06, GDA14, GAB<sup>+08</sup>, GAJ<sup>+16</sup>, HZG<sup>+16</sup>, HS11, JS14, JWW<sup>+11</sup>, KKB<sup>+09a</sup>, LRV<sup>+09</sup>, LSS14, MSV14, MBA<sup>+12</sup>, MN97, MS07, PL20, PKXK07, PAB<sup>+05</sup>, RAR<sup>+14</sup>, RHM<sup>+99</sup>, SCI05, SBD<sup>+10</sup>, SPB<sup>+17</sup>, SGK04, SvNH13, SHL<sup>+20</sup>, SCH<sup>+09</sup>, SCM<sup>+82</sup>, SCG<sup>+13</sup>, Tal20, VRL10, VOW<sup>+12</sup>, VCM<sup>+20</sup>, VAB<sup>+13</sup>, WLB<sup>+15</sup>, WLS<sup>+20</sup>, WSE<sup>+16</sup>, YSH12, vKCD<sup>+10</sup>, CHY92, PS09]. **Manager** [Kov06, Mau18, Mau20, FBG12,

MBA<sup>+12</sup>, YSH12]. **Managing** [Aus90, BCC<sup>+16</sup>, Jen10, Kru84, WAC<sup>+16</sup>, BC18, SPS<sup>+06</sup>]. **manganate** [SKEG<sup>+98</sup>]. **Manganese** [Sha58a]. **Manganese-Iron-Oxygen** [Sha58a]. **Manipulation** [AMG<sup>+87</sup>, CAE<sup>+76</sup>, THL85, Agn02]. **Manipulator** [Tay79]. **Manley** [RP66]. **Manned** [Jam81]. **manufacture** [CAC<sup>+95</sup>, GHP<sup>+93</sup>]. **Manufacturing** [BW83, Don00, EGS<sup>+85</sup>, GAC85, Har81, HMH97, MT81, SW67, AP69, BBH82, CDD82, CMS85, CNC<sup>+95</sup>, FGP<sup>+85</sup>, FS82, KL70b, KL94, LRMT95, MCH<sup>+82</sup>, Osb93, Ros99, Rot82, SCH<sup>+09</sup>, Stu70, Tib93]. **Many** [Adl64, BCSE89, BMPS91, Di 88]. **many-body** [BMPS91]. **Many-Valley** [Adl64]. **many-valued** [Di 88]. **mapper** [BMK<sup>+05</sup>]. **Mapping** [ABC<sup>+85</sup>, CA84, GHLW84, MY65, Ost84, LPPT86, PB89, RK15]. **Mappings** [Cve87b]. **MapReduce** [SXW<sup>+13</sup>]. **maps** [BBPS91]. **margin** [LZZ<sup>+16</sup>]. **Mark** [Dav80]. **market** [Sav69, SGER10]. **Marketing** [Sel07, BDMN14, LB07, TYM<sup>+14</sup>]. **marketing-mix** [TYM<sup>+14</sup>]. **markets** [Car10]. **Markov** [Bir01, Hei80, LB07]. **Markovian** [IS83a, IS83b]. **Maser** [Fan64, SS61, Smi57]. **Mask** [Ham78, KO65a, KM66, Rot74, BM93, BDS<sup>+97</sup>, MAG<sup>+01</sup>, Rot82]. **mask-making** [MAG<sup>+01</sup>]. **Masking** [JMLW94, Mid70b]. **Masks** [RHM63, SPP97, GHP<sup>+93</sup>, SMVK90]. **Mass** [Lev66, MKJM93, Pat80, SFD77, MS89, Spo94]. **mass-production** [MS89]. **Massey** [Gus76a, Gus76b]. **Massive** [CP13, SCC<sup>+15</sup>, Sof13, BBC<sup>+08</sup>, GGK<sup>+13</sup>, KCML13, SXW<sup>+13</sup>, ZSY<sup>+13</sup>]. **Massive-scale** [SCC<sup>+15</sup>, Sof13, GGK<sup>+13</sup>, ZSY<sup>+13</sup>]. **Massively** [CNC<sup>+08</sup>, VBC<sup>+08</sup>, ZEH<sup>+08</sup>, BSHM01, CBV08, CDD<sup>+10</sup>, RQBW08, STW<sup>+08</sup>]. **Masterslice** [Bra75, CCJH81]. **Match** [BR82]. **Matched** [VSF65]. **Matching** [KR87, Kur87, LC80, Maz70, Tap82]. **Material** [BS84b, CS65a, Hai85, Par60, AAC<sup>+06</sup>, DVM81, RK72, Yan07]. **Material-Handling** [Hai85]. **Materials** [Ame80, BHR77, BS77, Buc99b, Hat88, Hov78, KN81, Lew78b, Lip92a, Mer78, STCR84, ARM<sup>+01</sup>, ABR71, AR98, BK76, BWB<sup>+82</sup>, CBH<sup>+05</sup>, Cop00a, DG93, EKS<sup>+04</sup>, Gri99, Hsi99, JS00, Kel89, MBC<sup>+96</sup>, Nes98, NSOO98, See93, SA00, Tan96]. **math** [EFG<sup>+05</sup>]. **Mathematical** [DB69, KO67, KO69b, Opr03, Paz75, Pul03, SH57b, SH57c, SS59a, Var19, CFL67, KM68, KM73, WH94]. **Mathematics** [Coh87, HM87, Wan60, AKM<sup>+03</sup>]. **Mathieu** [Lev66]. **Matrices** [Erd59, Fla65, Sch84, VM79, AGZ94c, CW58, Fil70, Gus03, PS91, Tue68]. **Matrix** [Chi60a, Con58, Con60, Her66, Mar59, McA83, Tuc60b, ZH89, AGZ94b, ABG<sup>+95</sup>, AIH<sup>+98</sup>, CAW<sup>+98</sup>, Gup97, LCL<sup>+98</sup>, RSS91, Ris72, Sit71, Tol97]. **matrix-multiplication** [AGZ94b]. **Matter** [FRE<sup>+08</sup>, GZE<sup>+05</sup>]. **Mature** [Tay84]. **maturity** [CM19]. **Maximal** [Ari69, Mar64a, MS60b, Pat70]. **Maximizing** [RMM03]. **Maximum** [Bar80, Bar86, Boh70, EÖH10, FHSD06, Mac60]. **maximum-energy-concentration** [Bar86]. **maximum-likelihood** [EÖH10]. **Mb** [FKOP90, GP06a]. **Mbps** [OCB<sup>+90</sup>]. **Mc** [Rut59, RS59b]. **MCAW** [EBH<sup>+16</sup>]. **MCM** [KBM<sup>+99</sup>, KPT<sup>+02</sup>, Lee77b]. **MDGRAPE** [EKS<sup>+04</sup>]. **MDGRAPE-2** [EKS<sup>+04</sup>]. **Mean** [Col62, Pri58c, Mat03]. **mean-value** [Mat03]. **meaning** [AC92]. **Meaningful** [Sha12]. **Means** [AK82, Sie63, CNH73]. **Measure** [SS88, DB01]. **Measured** [SS88]. **Measurement** [BDS<sup>+97</sup>, Cha73b, EGS60, FF73, Hun59, KKS<sup>+73</sup>, Smi60, VCP80, BP74, DR93, GRH<sup>+08</sup>, GLCW93, HD73, KMK68, KO69a, KS01]. **Measurements**



[Ahn66, Bro66, CEY84, DKAC67, FFH64, KC89, KWB88, Map62, PSH80, Sie70, WB70, ABC<sup>+</sup>99a, CDM89, ESHM95, EFR<sup>+</sup>05, LS72, NBF<sup>+</sup>16, Peh69]. **Measures** [FH84, Gia66, HP84a, Sav70]. **Measuring** [Beb62, DH69, FL74, KRS<sup>+</sup>17, RSL<sup>+</sup>70, Yan71]. **Mechanical** [AOR62, BBKW86, DH83, LW77, Tay57, TBG<sup>+</sup>15, Wan60, WLPL<sup>+</sup>80, WCB<sup>+</sup>86, Bal91, BBF<sup>+</sup>05, Fer70, GPL<sup>+</sup>92, KLS<sup>+</sup>05, Pri66, WGC93]. **Mechanics** [CF72, Pri58b, Moi91, Tho94]. **Mechanism** [Bay78, Cla79, HP66, Mee67, MWEJ05, HMM82]. **Mechanisms** [BLR84, BRA84, Cha69, Gom86, Ho66, Kas70, PL79, Sch62a, vAR82, BW72, MMV<sup>+</sup>01, PAZ72, Whi93]. **Mechanistic** [GB93]. **mechanized** [Luh57]. **Media** [Bay69, Blu79a, Pol78, SW74, BDMN14, BEJ<sup>+</sup>14, HPZ<sup>+</sup>05, JMM<sup>+</sup>96, KSSC<sup>+</sup>13, MA96, NMH<sup>+</sup>07, RVT<sup>+</sup>13]. **mediated** [GB93]. **Medical** [Pet77, ACC<sup>+</sup>15, GDLS14, KWB<sup>+</sup>15, OMA<sup>+</sup>96]. **medical-image** [OMA<sup>+</sup>96]. **medicine** [Far82]. **Medium** [Cop00a, Gru79, Mir60, CDD<sup>+</sup>10]. **Medium-energy** [Cop00a]. **meeting** [MWL<sup>+</sup>14, KSB07]. **meets** [MBB<sup>+</sup>01]. **Megacycle** [WRLA57]. **megapixel** [SGY<sup>+</sup>98]. **Meissner** [Mat62b, vK62]. **melanoma** [CNP<sup>+</sup>17]. **Mellin** [Lew75]. **MEM** [KJP11]. **Membrane** [DWGC85, Pet79]. **membranes** [ABM<sup>+</sup>01]. **Memories** [Ast58, Gra80, Sch63, WT77, FR01, Gab69, Hui90, KMB<sup>+</sup>08, Lai08, ORT<sup>+</sup>96, VTMB<sup>+</sup>90, WW71]. **Memory** [Aic84, ABPS66, Bar75, BBC<sup>+</sup>64, Bla63, BCH84, CFL73, CH84, CR84, CLW80, CPZ63, Cro57, Cve87a, Dah63, Dub72, FHVZ80, FMP61, FP57, Gar57, Gha75a, Gha75b, GMW80, Has62, Hor62, JM64, KPST61, KJMS67, KHBC66, LL99, LH57, LH00, LST80, MRH89, MLGD84, Mat80, MP61, NAB<sup>+</sup>15, ND57, ND00, OBB<sup>+</sup>05, Ost84, Pea69, PSS67, PHCR81, RS94, RRSW61, RWC80, SSW65, SMD80, Swa60, TFR<sup>+</sup>01, Tro80, WWLF67, AGZ94b, BS06, BBP72, BMD<sup>+</sup>20, BPS81, BAB<sup>+</sup>13, BH80, BCKK92, BKS<sup>+</sup>08, CNL<sup>+</sup>19, CP97, CTT91, CGN72, CW91, Don74, DMR<sup>+</sup>81, EGN<sup>+</sup>19, FP73, FHPR01, FW08, GBK<sup>+</sup>19, Hat72, HRG80, Lar80, LGW<sup>+</sup>15, Lee77b, LH84, MBJ<sup>+</sup>97, MDB<sup>+</sup>02, MHI01, Mat03, MLMP<sup>+</sup>12, MCG<sup>+</sup>15, NFS<sup>+</sup>17, OWG<sup>+</sup>13, Pat72, RBB<sup>+</sup>08, RHC73, SKSP06, SSD<sup>+</sup>15, SDS<sup>+</sup>18, Sur15, Tol97, TGB<sup>+</sup>80, VLT<sup>+</sup>12, Won90, AFP<sup>+</sup>01]. **Memory** [SAPT01]. **memory-system** [Tol97]. **mentor** [WA15]. **Mercury** [CJT62, RL70]. **Merge** [Tod78a, TW85]. **Merged** [SS76, Lee77b]. **merging** [GLK<sup>+</sup>12]. **Merit** [Esa62, Gia66]. **Mersenne** [Nus76b, Nus77]. **mesa** [AA71]. **MESFET** [Moh70]. **MESFETs** [JVP<sup>+</sup>90]. **mesh** [FGH<sup>+</sup>06]. **mesh-connected** [FGH<sup>+</sup>06]. **Mesosopic** [CGR88, KH88]. **Message** [Age04, Age05, Age08, Bal05, Cal81, Che06, Che08, DR08, Des02, Des04, Don00, Kov06, Mau18, Mau20, Mey03, NNF15, Nun09, Pea09, Pic18, Pri07, PS09, Pul07, Ros03, San12, Str81, Viv14, AAC<sup>+</sup>05, KLMV19, LDSY91]. **message-passing** [AAC<sup>+</sup>05, LDSY91]. **Messages** [MG63a]. **messaging** [BEE<sup>+</sup>02, NNMJ01, SCW10]. **META** [AGH<sup>+</sup>16]. **Metabolic** [NBF<sup>+</sup>00]. **metabolism** [LPPT86]. **Metal** [BLR84, BRA84, Fre70, LMD70, RM70, RWC80, Was88, BNT86, CWC95, Dat98b, DN97, Dür94, GB93, GNF06, HSH<sup>+</sup>88, KMB<sup>+</sup>08, OHWR88, SN98, VWJK11]. **Metal-Insulator** [RM70]. **metal-mediated** [GB93]. **metal-oxide** [VWJK11]. **metal-polyimide** [DN97]. **metal-polymer** [HSH<sup>+</sup>88]. **Metal-To-Polysilicon** [RWC80]. **Metallic** [Coo62, Lan88, SC88, CCG73, Lan57, Lan96, Lan00b]. **Metallization** [FHL<sup>+</sup>82, Ham78, Mid70a, WKD98, CU98, GPL<sup>+</sup>92, LV94, WDA05]. **metalloenzymes** [MMV<sup>+</sup>01]. **Metallographic** [Han57, KWT<sup>+</sup>11]. **Metallography** [Kov59]. **Metallurgy**

[GRS87, KT84, BA69, TS69]. **metalorganic** [Tis90]. **Metals** [KJ86, Lit62, Dat93, KJSG<sup>+</sup>88]. **Metastable** [RVV88]. **meteorite** [KWT<sup>+</sup>11]. **Meteorology** [Kol67]. **metering** [Sch96b]. **Methacrylate** [AGLM85, GOJN77]. **Methacrylate-Based** [AGLM85]. **Methacrylates** [Hir77]. **methane** [HHA93]. **Method** [ARV64, Beb62, BP84, Bre72, Dan60, GS87, Hua79, LC80, Man85, MJJ69, MS67, MVI<sup>+</sup>07, Pri58c, Rot66a, SR63, Thr65, VCP80, WSW83, Wel61, Yha75, BGK<sup>+</sup>82, Boh70, BBK<sup>+</sup>08, BS72, Bra72a, CP72, CW72, Dan66, FRPG01, Fra80b, Fro71, Gil60, GB71, HRW69, JP94, KN91b, KSK98, Lan66, LS77, Lei61, MN70, MC87, Mic72, MTB<sup>+</sup>90, SNA02, Sit87, TLM83, Tom72, WLEF89]. **methodologies** [GGKK96]. **Methodology** [CW83, LSH76, SH84, TS82, ABB<sup>+</sup>99, BAB<sup>+</sup>07, BWB<sup>+</sup>18, BBS<sup>+</sup>03, CCW<sup>+</sup>02, DL02, EGH<sup>+</sup>96, FPB<sup>+</sup>11, HNS<sup>+</sup>03, HKR<sup>+</sup>97, KBK<sup>+</sup>97, KEL<sup>+</sup>00, Mat98, RB90, RBK<sup>+</sup>08, RFC<sup>+</sup>07, SCC<sup>+</sup>97, TMF<sup>+</sup>08, WBW<sup>+</sup>15, ZFG<sup>+</sup>11, EPP10]. **Methods** [Bro66, Dub83, Fra70, FP83, Gaz78, HS85, HW81, HS61, KLS66, Meg63b, Mir69, Ode87, Sch62b, ATW06, Boh73, GM72, GK64, Ham99, HHR99, HM71, HKD06, Hor98, HRS07, HE10, Kri82, LO72, Mac60, MDR<sup>+</sup>07, Meg63a, RW59, Wid67, Wol72, WBT<sup>+</sup>10]. **Methyl** [AGLM85, GOJN77]. **metric** [DRSM15, FM10]. **metrics** [BC18]. **Metrology** [Rot74, Rot82]. **Mexico** [HF78]. **MgO** [AS78, JWSP06, PW78]. **MHz** [RHC73]. **Michelson** [GHW70]. **Microanalysis** [NM62]. **Microarchitecture** [FAD<sup>+</sup>07, BBS<sup>+</sup>03, LSF<sup>+</sup>07, MWS09, SCS<sup>+</sup>02, SBDT<sup>+</sup>09, SKT<sup>+</sup>05, SVE<sup>+</sup>15, TDF<sup>+</sup>02]. **microarchitecture-level** [BBS<sup>+</sup>03]. **Microarchitectures** [CNL<sup>+</sup>19]. **microbiome** [WSE<sup>+</sup>16]. **microblogging** [CGM<sup>+</sup>15b]. **microcode** [vBBE<sup>+</sup>02, GMS05, KKM02]. **Microcoded** [CN74]. **Microcontact** [BLDM97]. **Microdisplays** [HP01]. **microelectronic** [Cop00a, CNC<sup>+</sup>95, KLS<sup>+</sup>05, TW69]. **Microelectronics** [DHSC64, Ang01, BRB<sup>+</sup>07, DHSC00, JS00, KBF<sup>+</sup>92, OSP<sup>+</sup>98, RWM<sup>+</sup>05, RB92]. **microelectronics-related** [JS00]. **Microfabrication** [Dat98b, Dat98a, vS98]. **microfractography** [Mon82b]. **Microglossaries** [Tar63]. **Micrographs** [Kra81]. **microinch** [CMR72]. **Micromechanical** [Pet79]. **Micromechanics** [LDL84, Poh95]. **Micrometer** [Ghe80, BK76]. **Microminiature** [LFR05, VLKW14]. **micromodels** [LS73]. **micron** [KCA<sup>+</sup>95, MTH71]. **Micropitch** [NSOO98]. **Microprobe** [KM74]. **Microprocessor** [AK82, CT82, Cor82, HS81b, ML82, ADH<sup>+</sup>00a, BGW<sup>+</sup>04, BBH<sup>+</sup>95, BAB<sup>+</sup>07, BCJ<sup>+</sup>96, BBGP94, BBC<sup>+</sup>12b, CCW<sup>+</sup>02, CFP<sup>+</sup>07, CJB<sup>+</sup>15, FGK<sup>+</sup>07, FPB<sup>+</sup>11, GP81, HKR<sup>+</sup>97, JSR<sup>+</sup>18, JO96, KL97, KAB<sup>+</sup>12, LR97, LRH<sup>+</sup>02, MBF<sup>+</sup>07, MP82, SRJ<sup>+</sup>20, SRL<sup>+</sup>11, SBDT<sup>+</sup>09, SWC<sup>+</sup>97, SPM04, SMK<sup>+</sup>99, VMM<sup>+</sup>94, VLP<sup>+</sup>05, WKP<sup>+</sup>02, WL97, Web00, ZS03, ZFG<sup>+</sup>11]. **Microprocessor-Based** [HS81b, GP81, MBF<sup>+</sup>07]. **Microprocessors** [RS85, Sta85a, ABB<sup>+</sup>99, BBS<sup>+</sup>03, CS99, CT06, DKS<sup>+</sup>95, GBRJ05, SLC<sup>+</sup>97, SCC<sup>+</sup>97, WBS<sup>+</sup>18]. **Microprograms** [Bir74]. **Microscope** [AMGC86, APS86, BMC86, CW86, DHTW86, KJ86, vv86b, BNT86, KKT<sup>+</sup>95, MPH90]. **Microscopy** [Ano86c, DPR86, FF86, Fin86, Gar86, GH86, Gom86, HG83, HBR85, Poh86, SB86, TH11, WKB<sup>+</sup>86, All00, Bat00, BR00, Dür94, EBd<sup>+</sup>86, HBR86, KWT<sup>+</sup>11, Lud00, LFC95, Mat95, MHK<sup>+</sup>11, Poh95, Ros00, SKB<sup>+</sup>11, SA00, Sto91, Tro00a, TTI98, VWJK11]. **Microsecond** [RRSW61]. **Microsectioning** [Han57]. **microstrip** [HRW69].

**Microstructural** [SGC<sup>+</sup>87].  
**Microstructure** [GH86, Hat88, KLS<sup>+</sup>05, KWJJ84, Kuh88, Lye77]. **Microstructures** [SC88]. **Microtasking** [CSZ86].  
**microturbulence** [ETWO08]. **Microwave** [BGS64, FP69, Gli69, GRT74, RS69, Smi57, SOC59, Wol70, BH89, Tur69]. **mid** [Jaq03].  
**mid-range** [Jaq03]. **Middleware** [AGH<sup>+</sup>16, KOP14, FGG<sup>+</sup>13]. **midplane** [HPZ<sup>+</sup>05]. **migratable** [BPS<sup>+</sup>96].  
**Migration** [GRSW86, AT00, CBV08, HBT<sup>+</sup>16, NML<sup>+</sup>20, WGS04]. **military** [BCE<sup>+</sup>07]. **Millicode** [HF04].  
**Millimicrosecond** [DP59]. **Millipede** [VDD<sup>+</sup>00]. **MIN** [BP74]. **MINI** [HCO74].  
**Miniaturization** [Key88, Key00, Llo67].  
**Minicomputer** [Rad83, Rad00]. **minima** [LMPP69]. **Minimal** [GJ00, KL70a, Moo60].  
**Minimal-storage** [GJ00]. **Minimaximal** [Rai69]. **Minimization** [OH74, Pal61, Rot60a, Rot60b, RK62, Tid62, HCO74, RW59]. **minimizing** [MWL<sup>+</sup>14].  
**minimotor** [OCR<sup>+</sup>98]. **Minimum** [Hsi70, Mar61, Pat70, HZB<sup>+</sup>06, Kar73, Mac60].  
**minimum-distance** [Mac60].  
**minimum-energy** [HZB<sup>+</sup>06]. **mining** [ASR07, BGL07, KSSC<sup>+</sup>13, MIL<sup>+</sup>18]. **Mira** [CKL<sup>+</sup>13]. **Mirror** [Kue60, Pet80]. **MIS** [CL74]. **Miss** [SS76, MHI01, Thi88]. **missile** [RMR94]. **misuse** [SJW<sup>+</sup>16]. **mitigate** [ESA02, SLZL18]. **mitigating** [BDH<sup>+</sup>19, SP14]. **mix** [TYM<sup>+</sup>14]. **Mixed** [Azb88, BLR84, GS72b, GS72a, Lee07, NBF<sup>+</sup>16, Mey00b, NML<sup>+</sup>20, VWPB90].  
**Mixed-effects** [NBF<sup>+</sup>16]. **Mixed-integer** [GS72b, GS72a, Lee07]. **mixed-signal** [Mey00b, VWPB90]. **Mixing** [FGMPK05, SB62]. **Mixtures** [GBC65, CJ78b]. **MMA** [Lye77].  
**MMA-Co-MAA** [Lye77]. **MNETS** [Mat98]. **MnO** [Mat70]. **MNOS** [FP73].  
**MnRh** [Sui75]. **MnTe** [MDJ<sup>+</sup>70]. **Mo** [HBL62]. **Mobile** [CJK<sup>+</sup>13, GRB<sup>+</sup>16, Rit13, CLP<sup>+</sup>13b, CLP<sup>+</sup>13a, HHC<sup>+</sup>18, KKT09, OYHSB14, RRMD17, RFB<sup>+</sup>03, SSK<sup>+</sup>16, YGR14, MBF<sup>+</sup>13]. **mobile/BYOD** [SSK<sup>+</sup>16]. **Mobilities** [PK61]. **Mobility** [LB85, PB69, Sie70, AAM<sup>+</sup>07]. **Mode** [Dum63, GHW70, KHBC66, PK61, SAL63, Tie61, WS75, CJM96, HB73, SGK04].  
**Model** [AKKJ72, AST67a, AEGP67, And73, AHH<sup>+</sup>91, BBS78, BM63, BGM<sup>+</sup>67, BH82, BHWZ63, Cha74, Cho75, CP77, DB69, Doo83, Eas75, Eas78, El 74, FL67, Ins77, KS79, Kle64, LS75b, Lom76, Lom80, MDJV08, MTS84, MMV<sup>+</sup>01, Nor58, NM65, Sav69, SH57b, SH57c, SNP06, SFT78, SMD80, Sta84b, TY64, TC63, TO77, AP69, Agi74, ABK89, AKRS04, Bar78, BC00, CG71, CBD<sup>+</sup>09, Fla91, Gam72, GGRW91, Gsc09, GSAP17, HCL72, HdTR06, JL90, KMGD19, Koc59, Lew78a, LGBV17, Moo72, MS07, PLK09, QS67, QGT13, RBL<sup>+</sup>09, SHC<sup>+</sup>72, SM71, Sta75, TWM<sup>+</sup>14, TMW<sup>+</sup>17, Var89, Wor06, Yar12]. **Model-based** [SNP06]. **Model-driven** [MDJV08, TWM<sup>+</sup>14]. **Modeling** [BS81, BKM80b, CH06, DKS<sup>+</sup>95, EGS<sup>+</sup>85, Fla81, GL87, GC93, Ham99, Hoh78, Irv93, KW76, KGCS85, LS76a, LGBV17, LBT99, MMJ69, OHM<sup>+</sup>85, PB89, Pau89, RR87, SCR78, Sri96, Sta83, Sta84a, IBM13c, VDP94, Was77, WLPL<sup>+</sup>80, Wes90, WWK<sup>+</sup>87, Yas07, AHN<sup>+</sup>03, BWK20, Boh73, DJK14, FGW81, HNS<sup>+</sup>03, HS11, KCOW08, KTD20, Law02, LLF<sup>+</sup>92, Lee07, Mah93, Man90, MS96, NNN<sup>+</sup>06, Osb93, PLS20, PCW<sup>+</sup>17, RES<sup>+</sup>15, RWM<sup>+</sup>05, RBK<sup>+</sup>08, Rub90, SJMBK08, Sta76, Sta00, Tan08, VMG99]. **modelling** [DSW71]. **Models** [BS84a, CW85, ET86, Fer75, FN71, LB85, Mil84, Ohb84, SC75, ZG65, ADG<sup>+</sup>92a, AKB<sup>+</sup>17, ARS<sup>+</sup>17, BHP17, BW16, Bir01, Car10, CCF<sup>+</sup>10, CKE<sup>+</sup>10, HA00, Mat03, NBF<sup>+</sup>16, NLP17, OTC14, OIM<sup>+</sup>13, SMS80, TCP<sup>+</sup>16, VVHL16, el 69]. **Modem** [CN74, GP81]. **Modems** [HS81b, Nob95b]. **modern** [ZBBB17]. **Modes**

[Bei74, Fan64, AL76, YL98]. **MODI** [MBF<sup>+</sup>13]. **Modification** [AMGC86, KMCY82, ACM<sup>+</sup>89, EM94, LV94]. **Modified** [Ho75a, JP94]. **modify** [TMW<sup>+</sup>17]. **Modular** [Bra75, LV62, Mat98, NCM<sup>+</sup>01, FGH<sup>+</sup>06, KMC<sup>+</sup>11, WPL<sup>+</sup>12]. **Modulated** [ASV76]. **Modulation** [Ano66j, Bla65, Hop59, PL83, Pat75, CN71]. **Modulation-Demodulation** [Hop59]. **modulator** [SGY<sup>+</sup>98]. **modulators** [YL98]. **Module** [BGR82, BB82, CW83, HCBA82, HW87, OK82, PW83, San83a, DHK<sup>+</sup>92, ESA02, GZM92, KLM<sup>+</sup>91, KPT<sup>+</sup>02, PGS<sup>+</sup>98, YCB05]. **Modules** [Cle83, Mul74, BRB92, HOWP92, MKW<sup>+</sup>05, WKD98]. **Moduli** [AW62]. **Modulo** [CM80]. **modulus** [AEG<sup>+</sup>02]. **Moiré** [GLCW93, Abb66]. **Moisture** [BP84, MLSS84, MVK85, BBF<sup>+</sup>05]. **Molecular** [ABR71, BBS78, Dem78, Lun79, MY67a, MY68, RSSS82, AHK<sup>+</sup>18, ACM01, ABM<sup>+</sup>01, BBK<sup>+</sup>08, DP68, EB06, EFG<sup>+</sup>05, Far98, GZE<sup>+</sup>05, GI88, Gyg08, KHZ<sup>+</sup>08, Mat95, SPP<sup>+</sup>05, WNB91, ZEH<sup>+</sup>08, ZHP<sup>+</sup>18]. **Molecule** [MY67b]. **Molecules** [Cle65a, SLLP64, Cle00, Hun71, MHW95, TWRW89]. **Moment** [Cas70, HC70, CBH<sup>+</sup>05]. **momentum** [Sun06]. **monetization** [CDL<sup>+</sup>14]. **Monitor** [MHI98, MHR<sup>+</sup>15, MAD<sup>+</sup>98, WCNSH94]. **Monitoring** [Cle83, CMR72, Irv91, ABC<sup>+</sup>99a, BCH<sup>+</sup>16, BAV<sup>+</sup>09, BISN<sup>+</sup>12, BFG<sup>+</sup>99, CDSW06, HKA<sup>+</sup>13, Hor98, KCH<sup>+</sup>09, LR97, MSV14, MC09, ODL<sup>+</sup>09, SCW10, Sta76, Sta00]. **Mono** [Fin86]. **Mono-Atomic** [Fin86]. **monochromatic** [PW68]. **monogamous** [Ter04]. **Monohydride** [Pan78]. **Monolayer** [Mor79, BLDM97]. **Monolayers** [DK79, RSSS82]. **Monolithic** [BFL66, DHK00, CGN72, KACS95, Spr71, TS69]. **Monopole** [Lev66]. **monoxide** [KLE71]. **Monte** [Ken61a, LFF90, MNR86, MS96]. **Moore** [HS60, Koc59, Lam77a]. **Moore-Shannon** [Koc59]. **Morphological** [Ins77, BBPS91]. **morphologies** [KSH<sup>+</sup>08]. **morphology** [SRD94]. **MOS** [BBHS84, Lud00]. **MOSFET** [Ano06b, AAC<sup>+</sup>06, EKTT90, Gae79, OKH<sup>+</sup>02]. **MOSFETs** [LBT99, LDSA02, WS75, RGL75, SFG<sup>+</sup>06]. **Motion** [BBT83, Hau67, Hen83, Her65, Mir60, RVV88, Bau72, BS71a, GYK99, Gre60, HAG<sup>+</sup>13, MHW95]. **motion-estimation** [GYK99]. **Motions** [ASV76, Oht95]. **Motor** [MR76b, BSSZ76, LRNS17]. **motorneuron** [DC73b]. **Motors** [Fre67]. **mounted** [Hei90]. **move** [BGS13]. **movement** [BSY<sup>+</sup>15, McN94]. **Movements** [Pic87, LRNS17, PAH<sup>+</sup>18]. **Moving** [ALL77, AAM<sup>+</sup>07, BGT74, LPA<sup>+</sup>15, Sti79, BM68]. **moving-coil** [BM68]. **MPEG** [AFFS98, AF99, BNW99, GYK99, MRG99, RT99, WRG99]. **MPEG-2** [AFFS98, AF99, BNW99, GYK99, MRG99, RT99, WRG99]. **MR** [Lan96]. **MRAM** [Ano06c, ATW06, GON<sup>+</sup>06, GP06a, MDG<sup>+</sup>06, Wor06]. **mu** [Bra72b]. **Much** [Goo58]. **Multi** [BT67, BW83, CW83, HSL<sup>+</sup>10, Kru84, Okt71, Ros66, Sak79, TYM<sup>+</sup>14, Wre83, ATL<sup>+</sup>88, BBMR19, CLP<sup>+</sup>13a, GWRS90, Irv93, KMM<sup>+</sup>16, LQRS04, Mon82b, NLP17, Okl03, RBB<sup>+</sup>02, SLC09, ST89]. **multi-adaptive** [LQRS04]. **multi-armed** [BBMR19]. **Multi-Chip** [CW83, GWRS90]. **multi-core** [SLC09]. **multi-delay** [NLP17]. **multi-factor** [CLP<sup>+</sup>13a]. **Multi-fluid** [Okt71]. **multi-gigahertz** [Okl03]. **Multi-Head** [Ros66]. **multi-image** [Mon82b]. **Multi-index** [HSL<sup>+</sup>10]. **Multi-Layer** [BW83, Wre83]. **multi-loop** [ST89]. **multi-node** [Irv93]. **Multi-period** [TYM<sup>+</sup>14]. **multi-purpose** [ATL<sup>+</sup>88]. **multi-site** [RBB<sup>+</sup>02]. **Multi-Stage** [BT67]. **multi-tenant** [KMM<sup>+</sup>16]. **Multi-Terminal** [Sak79]. **Multi-Version** [Kru84].

**Multiband** [DG84]. **multibook** [BGW<sup>+</sup>04]. **multibooks** [WGS04]. **Multichannel** [WA79]. **multichip** [KPT<sup>+</sup>02, MKW<sup>+</sup>05, PGS<sup>+</sup>98, WKD98, YCB05]. **multicolumn** [Bil72]. **Multicommodity** [VJA07]. **multicompartament** [TMW<sup>+</sup>17]. **Multicomponent** [Bil70, WC69]. **Multiconductor** [Wee72]. **Multiconic** [DJ75]. **multicore** [BFH10, CBD<sup>+</sup>09, FNY<sup>+</sup>10, SSMGD10, SKS<sup>+</sup>11, TWX<sup>+</sup>10, WNW<sup>+</sup>10, ZCLS10]. **multicore-processor** [FNY<sup>+</sup>10]. **Multidimensional** [KM77, FAFL91, TG91]. **Multifaceted** [GSC12, HJW<sup>+</sup>16]. **Multifont** [RH75, KL63]. **Multilayer** [BB82, LDL84, Cha88, DN97, FLP90, GA88, RRB<sup>+</sup>01, TKK<sup>+</sup>92]. **multilayers** [Jon98, Par98, SN98, VWJK11]. **Multilevel** [CM80, Gec74, Kan74, Mer88, RT75, BSHM01]. **Multimedia** [DFS98, FT98, Gon99, SS15, BBD<sup>+</sup>98, DFaDNS98, Has98, MMWLN99, BBD<sup>+</sup>98]. **Multimode** [SA66, ABD<sup>+</sup>92]. **Multiojective** [Agr01]. **multiparty** [BHH19]. **Multiple** [Ano66j, Bla65, Dah63, DLK84, DK67, DW58, Elm84, FLCB85, GFHW82, Hor57, Pat86, RK75, Sch80, Slo66, TW62, Tod78a, Tom67, WYTO04, Bra72a, DWW90, DSS<sup>+</sup>92, GA68, KBJ<sup>+</sup>18, LKY80, LD72, MN70, Oht95, Hei80]. **Multiple-Access** [Ano66j, Bla65, LKY80]. **Multiple-Curie-Point** [DK67]. **Multiple-Element** [DW58]. **multiple-input** [DWW90]. **Multiple-logical-channel** [WYTO04]. **Multiple-Nozzle** [DLK84]. **multiple-output** [MN70]. **Multiple-Technology** [Elm84]. **multiple-valued** [GA68]. **Multiple-Variable** [FLCB85]. **Multiplexing** [RTM65, Thr65, BNW99]. **Multiplication** [Ken61b, Meg62, RSS91, AGZ94b, ABG<sup>+</sup>95, Tol97]. **Multipliers** [VPS88, BH95]. **Multiply** [MS87, SN87, AEG<sup>+</sup>02]. **Multiply-Connected** [MS87, SN87]. **Multiprocessing** [KSW74, MSB<sup>+</sup>04]. **Multiprocessor** [FL75, KDH<sup>+</sup>05, LDSY91, LRH<sup>+</sup>02, MHI01, RSS91, SRL<sup>+</sup>11, SWB<sup>+</sup>91, SON<sup>+</sup>91, VLP<sup>+</sup>05]. **Multiprocessors** [CSZ86, BLM<sup>+</sup>92, FGT91]. **Multiprogrammed** [CDW75, Cho75]. **Multiprogramming** [And73, CFL73, Gha75b]. **Multipurpose** [Dun57b, DMN<sup>+</sup>59, EBD<sup>+</sup>95]. **Multiqueue** [Lei62, Lei61]. **Multiqueueing** [Sch62b]. **Multiscale** [DKA<sup>+</sup>05, PSP06, NNN<sup>+</sup>06]. **Multispectral** [Kan78, SM78, DBK82, NT72]. **Multistep** [Ode87, LO72]. **multithreaded** [ABF<sup>+</sup>10, BEKK00, CDD<sup>+</sup>10, CJB<sup>+</sup>15]. **Multithreading** [Ano05c, ABB<sup>+</sup>15, MMM<sup>+</sup>05]. **multivalued** [BP74]. **Multivariate** [Wat60a, BS72, OOL<sup>+</sup>12, YR91]. **multiwavelet** [FBHJ04]. **Muon** [Kel89]. **Muon-spin** [Kel89]. **Murphy** [Mei83]. **Mutually** [LF64]. **MVS** [ALS81, CHY92, SV92]. **MVS/ESA** [SV92]. **MXT** [AFP<sup>+</sup>01, SAPT01, TFR<sup>+</sup>01]. **mycotoxin** [NBF<sup>+</sup>16]. **myocardial** [LPPT86]. **myofilament** [HdTR06].

**n** [HC69, KO66, MG63b, BS69, BGK<sup>+</sup>80, EB99, KO67, Kog58b, Kog58a, MN67b, SS87b, VM79, Wei65, Bay69, LDSA02, MNP<sup>+</sup>69]. **N-Alkane** [VM79]. **n-Ge** [Bay69]. **n-InSb** [MNP<sup>+</sup>69]. **n-MOSFETs** [LDSA02]. **N-Queens** [SS87b]. **N-type** [MN67b]. **NACME** [Gar00]. **NAMD** [AHK<sup>+</sup>18, KHZ<sup>+</sup>08]. **name** [AFCB94]. **nanocrystal** [MSG<sup>+</sup>01]. **nanocrystals** [MSG<sup>+</sup>01]. **Nanolithography** [UBK<sup>+</sup>88, SS93]. **nanomagnetic** [Sun06]. **Nanoscale** [ZVW<sup>+</sup>11, HST06]. **Nanoscience** [TH11]. **Nanosecond** [DPW60, DPW00, PSS67, WWLF67].

**Nanostructure** [CKK<sup>+</sup>88, HST06]. **nanostructures** [HJS98]. **nanowires** [SHCS05]. **NaOH** [PM72]. **narrative** [GCL<sup>+</sup>19]. **Narrow** [DKAC67, KM66, LC83]. **National** [Coh87]. **Natural** [BKU88, Hei76, Leh78, O'C89, Pet76, Pla76, SFT78, AKB<sup>+</sup>17, BCD<sup>+</sup>17, CGS61, KVP<sup>+</sup>20, KM20, MIL<sup>+</sup>18, TYSS19, WN92]. **Natural-Language** [BKU88]. **Nature** [BD62, MKP73, VMH<sup>+</sup>83, Eme89]. **Navy** [Com83]. **Nb** [HBL62, ZBL<sup>+</sup>72, ZBL<sup>+</sup>72]. **Nb-Zr** [HBL62]. **Nchilada** [LQRS04]. **Nd** [TCCH98, YTF<sup>+</sup>11]. **Near** [DPR86, KG80, KO65a, Mee67, Pri60, Tau02]. **Near-Field** [DPR86]. **Near-Ideal** [KG80]. **Necessity** [Sch67]. **need** [Agn02, BGS13, BH11, VRL10]. **needles** [CCFB<sup>+</sup>12]. **needs** [KVP<sup>+</sup>20]. **Negative** [Bay69, CGHK77, ET70, Goo62, HA58, MNS69, PB69, Rut59, Rut64, SGL<sup>+</sup>97, SNM69, CASP91, Pai69]. **Negative-Resistance** [HA58, Rut59]. **negatives** [CP91, CAS<sup>+</sup>91, CASP91, Pen91]. **Nematic** [YL98, LJ92]. **neocortex** [DLJ<sup>+</sup>08]. **neonatal** [OOL<sup>+</sup>12]. **nested** [HS91]. **Net** [Chi60b, AKG<sup>+</sup>19]. **NetMessage** [AEH<sup>+</sup>04]. **NetMessage-protocol-based** [AEH<sup>+</sup>04]. **nets** [AKG<sup>+</sup>19, Mat98, PS86]. **Network** [Ahu79, BCH<sup>+</sup>16, CW77, Cve87b, HP84a, HS81a, Ho75a, HS81b, KP63, MHS62, Pal61, RK15, SL76, Sie63, SW83, Str81, Str83, Tid62, ABC<sup>+</sup>05, ABB<sup>+</sup>03, Ari69, BCE<sup>+</sup>07, CFS<sup>+</sup>19, DXZS13, FNY<sup>+</sup>10, HW72, HT69, JAC<sup>+</sup>19, LDJ<sup>+</sup>10, LSW13, LSZ<sup>+</sup>10, MYKK<sup>+</sup>17, Moo72, NQ20, OCB<sup>+</sup>90, ODA<sup>+</sup>08, PSP06, Rey69, SHCV19, SMS80, Sed67, SM71, VJA07, ZSY<sup>+</sup>13]. **network-attached** [ODA<sup>+</sup>08]. **network-centric** [BCE<sup>+</sup>07]. **network-optimized** [LDJ<sup>+</sup>10]. **Network-structured** [RK15]. **networked** [QGT13]. **Networking** [Whe88, BAB<sup>+</sup>18, DM03, DOJ<sup>+</sup>14, HSCG05].

**Networks** [Ahu80, Bra64, CHW75a, CHW75b, Cha67, Fra83, Fra87, HS85, MT77, MFT77, Moo60, RK75, Sau81, Alf89, ATC<sup>+</sup>15, BSRG17, Bra68, DFNNS17, EPP10, Gla97, HF91, Irv93, Ism00, Lam77a, Lam77b, MMWLN99, MM94, MDMN10, Pip87, RR69, SP17, SS82, SXW<sup>+</sup>13, ST89, SPS<sup>+</sup>06, SGS<sup>+</sup>20, VNT16, WP11, WT91, YCJ<sup>+</sup>17]. **Neumann** [AG72]. **Neural** [JAC<sup>+</sup>19, MYKK<sup>+</sup>17, AKG<sup>+</sup>19, DFNNS17, LGBV17, MM94, SP17, WT91]. **Neural-network-based** [MYKK<sup>+</sup>17]. **neurodegeneration** [PCW<sup>+</sup>17]. **neuroimaging** [PCW<sup>+</sup>17]. **Neuromorphic** [NLP17, FLB<sup>+</sup>19, LRNS17, MYKK<sup>+</sup>17]. **neuron** [KSH<sup>+</sup>08]. **neuronal** [TMW<sup>+</sup>17]. **neurons** [GSAP17]. **neurophysiology** [TR77]. **neuroprosthesis** [DBNK<sup>+</sup>17]. **neuropsychiatric** [CGH<sup>+</sup>17]. **neuroscience** [CK17b]. **neurosynaptic** [ATC<sup>+</sup>15]. **neutron** [BEH<sup>+</sup>89, CP72, EHK<sup>+</sup>89, HHB<sup>+</sup>89]. **neutron-scattering** [BEH<sup>+</sup>89, EHK<sup>+</sup>89]. **newspaper** [ZW17]. **NEXAFS** [CHL<sup>+</sup>11]. **Next** [AEG<sup>+</sup>20, ACD<sup>+</sup>15, DEG<sup>+</sup>01, EK08, FW08, JGD<sup>+</sup>08, KAB<sup>+</sup>05, OW00, SFH<sup>+</sup>16, WD94]. **Next-generation** [AEG<sup>+</sup>20, DEG<sup>+</sup>01, JGD<sup>+</sup>08, KAB<sup>+</sup>05]. **Ni** [MMT60, Mid62, CW78, Dem78, LR65a, MFS<sup>+</sup>11, Mid65]. **Ni-Fe** [MMT60, Mid62]. **Ni/Fe** [CW78]. **Nicholas** [Don00]. **Nickel** [AC63, BB60, Fre62, NBRB70, PBF60, AT00]. **nickel-base** [AT00]. **Nickel-Iron** [BB60, PBF60]. **Nicolson** [Fla65]. **NiFe** [Flu67]. **Nigeria** [TBH<sup>+</sup>17]. **night** [ESS<sup>+</sup>20]. **nighttime** [ESS<sup>+</sup>20]. **NIL** [SS87a]. **nineties** [Pul03]. **Niobium** [BMWL80]. **NiS** [HC70]. **nitridation** [Hes99]. **Nitride** [DA77]. **Nitrided** [HBB99, GLG<sup>+</sup>99, Luc99]. **nitrogen** [SHWK<sup>+</sup>90]. **nitrogenous** [MFPJ71]. **nitrones** [YHA71]. **Nitrous** [EB99]. **NLP** [KMC<sup>+</sup>11]. **nm**

[AWHK97, BRB<sup>+01</sup>, BFG<sup>+06</sup>, BWB<sup>+18</sup>, FAD<sup>+07</sup>, FRS<sup>+18</sup>, FCE<sup>+15</sup>, Ito01, IFB<sup>+11</sup>, KACS95, LBB<sup>+13</sup>, RFK<sup>+97</sup>, SS93, SRH<sup>+18</sup>, WBS<sup>+18</sup>, WNV<sup>+02</sup>]. **NMP** [SGT78]. **NMR** [CSS83, KIF<sup>+89</sup>, Lye77, LY83]. **No** [Car60, ACG<sup>+87</sup>]. **Noble** [VGC79]. **Nodal** [Ho75a]. **Node** [SL76, BWB<sup>+18</sup>, DRSM15, FRE<sup>+08</sup>, Irv93, WNV<sup>+02</sup>]. **node-link** [DRSM15]. **Noise** [Ano66j, Bla63, Bla65, CCM65, DG84, Eli58, Fal70, Gar88, PL83, PH65, Pri59, SA66, SW74, TK69, VSF65, DTTK95, EÖH10, PAZ72, Tur69]. **noise-predictive** [EÖH10]. **Noiseless** [Chi60a, Fra82]. **noisy** [Gri04]. **Nominal** [Bau63]. **Nominally** [IM57]. **Non** [IS83b, LS76b, MT84, Roe66, Sch64, Sta67, BTWY92, CHdTG92, IS83a]. **Non-Bandlimited** [Sta67]. **Non-ideal** [Roe66]. **Non-Impact** [MT84]. **Non-Markovian** [IS83b, IS83a]. **non-normal** [BTWY92, CHdTG92]. **Non-Ohmic** [Sch64]. **Non-Stationary** [LS76b]. **nonbinary** [Dan82]. **Noncoded** [CMP87]. **Nondegenerate** [Gar64, Lew73]. **Nondestructive** [AH79, KJMS67, PC64]. **Nondestructive-Read** [KJMS67]. **Nonexistence** [CLW79]. **noninvasive** [Hei90]. **Nonlinear** [Bre72, ELMR77, GM63, Hau67, Key63, LC82, Mul67, RP67, BS71b, Bra72a, Can73, DHMP94, Dur70, Fro71, GM72, GK64, HA00, Lan60, Lee07, Mir61, Peh69, Whi72]. **Nonlinearity** [ON60]. **Nonmetallic** [HSM84]. **nonohmic** [Vur70]. **Nonparabolic** [PB69]. **nonrigid** [RG09]. **nonsingular** [RW59]. **Nonsupervised** [NT72]. **Nonsymmetric** [Hau67]. **Nonuniform** [BKM80b, Cal81, van88]. **nonvacuum** [ZSZ96]. **nonvolatile** [NFS<sup>+17</sup>]. **Nonzero** [Pet77]. **Normal** [Bei74, Dui59, Erd59, Gef88, Lit62, Mei62, BTWY92, CHdTG92, CSH<sup>+89</sup>]. **Normalization** [Cas70]. **normally** [EC71]. **northeastern** [BJW72]. **Note** [Ano01b, Ano05b, BD62, Fan64, KKK61, Lei62, MG63a, Par60, Wyn64, CW58]. **Notes** [Ben88, Ben00, Jam89, Swa61]. **Noun** [SFT78]. **Noun-Phrase** [SFT78]. **Novel** [HJ88, Hov78, KCML13, KN81, Man85, NDM<sup>+04</sup>]. **Nozzle** [DLK84]. **Nozzles** [Lev77, SBT87]. **NP** [Koz81a, Koz81b]. **NP-Complete** [Koz81a, Koz81b]. **NPML** [EÖH10]. **ns** [MMR89]. **nsec** [ABPS66]. **NStrace** [SLC<sup>+97</sup>]. **Nuclear** [Mas62, Meh89, Tan96, ZBL<sup>+72</sup>, Bev69, BKM<sup>+69</sup>, FL69, Mol69, Yan71]. **NUMA** [KFB<sup>+97</sup>]. **Number** [LHW81, Nus77, Pri57b, AEG<sup>+02</sup>, BW81b, DB01, Lan66, LBB<sup>+13</sup>, Nus76a]. **Numbers** [BD96, Cli90, SW90, Hol78, Kum98]. **Numeral** [CK63]. **numerals** [GMNE63]. **Numeric** [SCRV78]. **Numerical** [Bei74, BFT79, BS72, CPL<sup>+74</sup>, DB76, DBC<sup>+06</sup>, Dub83, Fro71, Fro84, GS87, LS78, LLF<sup>+92</sup>, Lev66, LR65b, NB61a, RE71, San83a, SBT87, Shi73, Shi72, SM63, Sug59, AGZ94a, BS71b, BGL66, FW67, KS01, MY65, SRCW97, Whi72, Mic59]. **numerically** [AHH<sup>+91</sup>, BBPS91, GR92]. **O** [CSE66, KLBP64, MKP73, WTP64, ZBL<sup>+72</sup>, ABB<sup>+12a</sup>, ABB<sup>+15</sup>, BAB<sup>+18</sup>, BBC<sup>+12a</sup>, BPL<sup>+89</sup>, BH89, Bra72b, Bru78, CDM89, CBB<sup>+04</sup>, CCD<sup>+09</sup>, CAC<sup>+13</sup>, CCC<sup>+15</sup>, CSH<sup>+89</sup>, CHJ<sup>+18</sup>, EB99, GSG<sup>+90</sup>, GMS05, Gre97, GE02, GCS<sup>+12</sup>, HBB<sup>+07</sup>, HBL<sup>+99</sup>, HS04, HSL<sup>+05</sup>, MRH89, OHK<sup>+07</sup>, SHR<sup>+09</sup>, SBC<sup>+02</sup>, Var89, WMK<sup>+07</sup>, WYTO04, vHv<sup>+89</sup>]. **Obeying** [Tof88]. **Object** [Bea74, SK80, Alf89, MS89, NFI<sup>+08</sup>]. **object-based** [NFI<sup>+08</sup>]. **object-oriented** [Alf89]. **objectives** [And10]. **Objects** [Gro76, Lom76, EKR87]. **oblivious** [PVDF95]. **Observation** [Ber76b, BA62, KP63, MHW95, PW68]. **observational** [SXYP12]. **Observations** [AAB<sup>+10</sup>, Jon65, MHS62, She59b, ESS<sup>+20</sup>,

NT72]. **Observed** [SL66]. **obtain** [DN97]. **Obtaining** [Ham78, HRW69]. **occupational** [BC00]. **OCR** [CJ83, RH75]. **Odd** [Hsi70]. **Odd-Weight-Column** [Hsi70]. **Off** [HCS80, MW80a, MSW69, DTTK95]. **Off-Axis** [MSW69]. **off-chip** [DTTK95]. **offering** [BDN<sup>+</sup>02]. **Officer** [Pea09]. **offloading** [TMT<sup>+</sup>20]. **Ohmic** [Sch64]. **Oil** [ET86]. **Omega** [Cve87b]. **On-Board** [CC76b]. **On-Chip** [Kua95, CU98, SP90, BAB<sup>+</sup>13, DKS<sup>+</sup>95, ESHM95, LFR05, NFS<sup>+</sup>17]. **On-demand** [Elg11]. **On-Line** [BF77, Dah67, GHW70, Sve78, Tod78b, BP74, MBC<sup>+</sup>96, RS94, Rei69, WC69, YG81]. **On-The-Fly** [Pat86]. **One** [Bog79, BH79, CHS82, Erd88, Gri90, LM80, Pim76, RWC80, She59a, WA15, CIE<sup>+</sup>03, FRE<sup>+</sup>08, Gam72, Mar71, MN03, SGY<sup>+</sup>98]. **One-And** [BH79]. **One-Device** [RWC80]. **One-Dimensional** [Bog79, CHS82, Erd88, Pim76, Gam72, Mar71, MN03]. **one-megapixel** [SGY<sup>+</sup>98]. **One-Step** [LM80]. **one-terabyte** [CIE<sup>+</sup>03]. **One-Way** [She59a]. **Online** [RP14, SS20, BBMR19, Koe18, MOG<sup>+</sup>19]. **Only** [FMP61, Has66, JT66, MPST66, TK64]. **onto** [DKA<sup>+</sup>05]. **Ontology** [Pon17, FPST14, HHH04]. **Ontology-driven** [Pon17]. **Open** [AHM<sup>+</sup>07, BHP17, HTH<sup>+</sup>09, LD74, SP14, ZST<sup>+</sup>07, ADG<sup>+</sup>92b, BBE<sup>+</sup>20, CBD<sup>+</sup>09, GH<sup>+</sup>L04, GDA14, GWRS90, LH03, Mat03, RBL<sup>+</sup>09, van73b]. **open-queuing** [Mat03]. **open-source** [BBE<sup>+</sup>20, LH03]. **Open-standard** [AHM<sup>+</sup>07]. **Open-Tube** [LD74]. **open/short** [GWRS90]. **OpenCAPI** [SSI<sup>+</sup>18]. **OpenCL** [CIJ<sup>+</sup>10]. **Opening** [KM66]. **OpenMP** [EO13, EBB<sup>+</sup>20, TMT<sup>+</sup>20]. **opens** [SSI<sup>+</sup>18]. **OpenStack** [CJJ<sup>+</sup>16, ACFS16]. **Operated** [BMC86, SW67, Col69b, SHWK<sup>+</sup>90]. **Operating** [BCR91, Gau77b, HS82, MMS05, MPD86, PS09, ALS81, Irv93, JDBP10, MMR89, MAA<sup>+</sup>05, Cal70]. **Operation** [Gar57, HFDN63, LCH74, Mag73, Mar64c, PR65, BP92, HD73, HSL<sup>+</sup>10, SBD<sup>+</sup>10, ZG71]. **Operational** [Col69a, MP67, BWT<sup>+</sup>14, DJK14, VOW<sup>+</sup>12, YMR14]. **Operations** [CT76, DR08, LH03, PR59a, Win62, BCE<sup>+</sup>07, EGH<sup>+</sup>86, Sur69]. **Operator** [Ben59]. **Operators** [TL70, FBHJ04, GM73]. **Opportunities** [JAC<sup>+</sup>19, SFG<sup>+</sup>06, HvKI<sup>+</sup>09, MDZH<sup>+</sup>02, MLM<sup>+</sup>19, PPG<sup>+</sup>01]. **OPRO** [SLK<sup>+</sup>16]. **Optic** [Beb62, ABD<sup>+</sup>92, DSM<sup>+</sup>99, GLOS92, KACS95, Pat72, Wie90]. **Optical** [BDWZ83, Cha73b, CS97, DB79, DDMS92, Dim70, DPR86, EHHP67, FLR77, HD69, HCS80, MA96, OPR<sup>+</sup>78, PFS<sup>+</sup>70, SH63, SB62, SS61, SSTF77, WSW83, WR83, WB70, AAH68, AFF96, Bar68, BIK<sup>+</sup>05, Bro72, Bru97, DH69, DSRC98, GM69, HHH69, Hei90, Hen68, PK03, PR71, SGL<sup>+</sup>97, SRCW97, TJHK03]. **Optical-Digital** [WSW83]. **Optics** [LC82, MPS77, RSSS82, Zwe65]. **Optimal** [BJ67, Bud67, Chi60a, Her75, Hsi70, Kan74, LF77, Lew80, Low74, Mil83, MP88a, PH74, Rob67, BM68, EBD<sup>+</sup>95, FXL01, GHH<sup>+</sup>17, GB71, HSL<sup>+</sup>10, MD12a]. **Optimization** [BBH82, BDH83, Bou97, BMS80, Bra80, Cho74, Hal76, How82, Jur78, KLC84, LH03, MS75, PSW<sup>+</sup>07, SK80, SKK14, SMD80, Agr01, AAS<sup>+</sup>14, BCC<sup>+</sup>12, BKN10, BBH<sup>+</sup>95, BSJ<sup>+</sup>13, BGL07, BDHH<sup>+</sup>09, BR09b, CDSW06, Cor93, DFNNS17, DXZS13, DBNK<sup>+</sup>17, FRS<sup>+</sup>18, Gol69, GCFW07, HHSR96, KBA07, KKL<sup>+</sup>14, KSB07, Mey00b, MS07, NRA<sup>+</sup>07, PK18, Sel07, SC20, SS20, TYM<sup>+</sup>14, TGL<sup>+</sup>12, TMT<sup>+</sup>20, ZFG<sup>+</sup>11, ZFD<sup>+</sup>15, Pul07]. **optimizations** [HS04]. **Optimized** [Bea74, MBF<sup>+</sup>13, BEE<sup>+</sup>02, EBB<sup>+</sup>20, FCE<sup>+</sup>15, LDJ<sup>+</sup>10, MDN<sup>+</sup>18, Mye72, SDS<sup>+</sup>18, Wei91]. **Optimizing** [Ada84, BGH<sup>+</sup>05, FHSD06, GKT17, LB07]. **Optimum** [vdP72, van72, van73a, van73b].



**optoelectronic** [HVK+90]. **Orbital** [BBS78]. **Orbiter** [Soh76]. **orchestration** [AAS+14, HBT+16, NBM+19]. **Order** [El 74, Koz81a, Pet77, SM62, Swa57, Tri58, van89, Agi74, BMK+05, DBK82, Koz81b, Kri82, Sar97]. **Ordered** [HC70, JM64, DH03]. **Ordering** [Kus70, PFS+70, Sie70, Gup97]. **orders** [CIE+03]. **ordinal** [HE10]. **ordinary** [FW67]. **Organic** [BH79, DM01, GFHW82, Lew78b, Mer78, MCK01, SS01, SL66, SL67, SLHM67, ARM+01, CA01, DVM81, DG93, HP01, RRB+01, Sch71]. **Organic-inorganic** [MCK01]. **Organization** [BMK+05, LH57, RR83, WY76, BBP72, Cor69, FR01, GA68, Gro90, Jee58, LH00]. **organizations** [DSZ+12]. **organizations** [NQ20, VRL10]. **Orientation** [BTW62, Cam57, RSSS82, DDMS92, WTS+11]. **Oriented** [FE75, LP75, Lom80, SGT78, Alf89, GGH+13, Pes71, RD12]. **Origin** [CGHK77, Kuh88, Cre81]. **original** [Lan96]. **Originating** [Dah63]. **Origins** [MS05, Mat95]. **ORNL** [LSS+20]. **Orthogonal** [HBC70, OG87]. **Orthotropic** [BBT79]. **OSA** [BEE+02]. **OSA-Express** [BEE+02]. **Oscillations** [BGS64, FP69, Gef88, Gun66a, SH69, WS64]. **Oscillator** [Ros59, Rut59, Las61, MWW+07]. **Oscillators** [Net60]. **Oscillatory** [AW98]. **Oscilloscope** [GFS71]. **OSI** [FP83]. **Other** [Ano57k, Ano57l, Ano57m, Ano57n, Ano58j, Ano58k, Ano58l, Ano58m, Ano59f, Ano59g, Ano59h, Ano59i, Ano60i, Ano60j, Ano60k, Ano60l, Ano61f, Ano61g, Ano61h, Ano61i, Ano62f, Ano62g, Ano62h, Ano63f, Ano63g, Ano63h, Ano63i, Ano66s, Ano66t, Ano66u, Ano66v, Ano66w, Ano66x, Ano67w, Ano67x, Ano67y, Ano67z, Ano67v, Ano67-27, CPD+09, NB61a, NB61b, WR83, Ano94r, Ano94s, Ano94o, Ano94p, Ano94q, Ano95i, Ano95j, Ano95k, LZZ+16]. **our** [FvGGM90]. **out-of-order** [BMK+05]. **outages** [CHMW07, MVI+07]. **outlook** [GGK+13]. **Output** [BHWW77, HW81, Sve78, TW62, BSK+08, HB73, HBL+02, MN70]. **ovary** [NBF+00]. **Oven** [GMT57a, GMT57b]. **Overflow** [SL76]. **overhead** [EO13, Fla91, HS91, SKSP06]. **Overlap** [Bra72b]. **overlapped** [AGZ94b]. **overlapping** [CN94]. **Overlay** [Rot80, BTWY92, CL86, MMWLN99]. **Overlying** [Lan85]. **Overview** [Ame80, BCC+05, Bro80, BKS+08, CAC+95, GBC+05, GCS+12, IBM08, Mat80, SPP+05, YS99, BGM90, CdLS92, DBC+05, FBG12, GR92, Oht95, PMLA88, Pen91, SAB+02, Sri96, TFJ+96, ZL97]. **Own** [CLP+13b, JKB+13]. **Oxidant** [LD74]. **Oxidation** [DJ70, KEJ87, Pli66, Hes99, MFS+11]. **Oxide** [BKM80a, Gar86, OG80, RF78, EB99, GLG+99, KMB+08, Lud00, RG90, SF93, VWJK11]. **Oxides** [Fre70, Hon70, RM70, BPL+89, HBC+99, HBB99, KIF+89, LBT99]. **Oxygen** [HHB+89, MPCF82, Sha58a]. **oxynitride** [EB99]. **Oyster** [KW83].

**P** [Ber76a, IBM08, MB75, Wei65, Wie76, Lye77, PK61, BS69, KO67, KLBP64, Wei65]. **P-N** [BS69, KO67]. **PACE** [ET69]. **Package** [BB82, CHS82, Dav82, HCBA82, JH80, KMH82, BCK+05, CS84, CBC+18, KAB+05, KRT98, Pai72, CMS85]. **packages** [PGS+98, RBWH93, Rub90, SJMBK08]. **Packaging** [Att92, Bro80, BHWZ63, CBC+05, CHT+13, HW87, KLC84, KT84, PBC+04, SF81, STCR84, TBB+09, Wee79, WHK+09, AKRS04, Ano01c, BHH+15, BBF+05, CAC+05, DHK00, HPW+02, HDW+07, KDT18, KTD20, LFR05, PK88, SAB+02, SBC+12, TBG+15, VLKW14, WBH+04, YT16]. **Packet** [Str81]. **Packets** [MFT77]. **Packing** [KM77]. **Packs** [BT78]. **Padé** [Ris72]. **Page** [CFL73, AAH68, Ano58e, Bar68, Hat72,

Hen68, KGT88, LS73, Bar75].  
**page-reference** [KGT88]. **Paged** [FLW78].  
**pages** [TBS09]. **Paging**  
 [Bar73, BP74, TKG89, Tue76]. **Pair**  
 [Cor84, HL83]. **palette** [KLMV19].  
**palmitate** [VBM71]. **Panda** [CMP87].  
**Panel** [Ham78, Lan74, LS78, LCH74, PW78,  
 RBC78, Wre83, Wym57]. **Panel-Drilling**  
 [Wre83]. **Panels**  
 [AS78, BdM<sup>+</sup>78, OPR<sup>+</sup>78, O'H78, RP78].  
**Paper**  
 [Ast67b, Bay78, BS84b, CD78, Sve78, Lax67].  
**Papers** [Ano57k, Ano57l, Ano57m, Ano57n,  
 Ano57v, Ano57u, Ano58j, Ano58k, Ano58l,  
 Ano58m, Ano59f, Ano59g, Ano59h, Ano59i,  
 Ano60i, Ano60j, Ano60k, Ano60l, Ano61f,  
 Ano61g, Ano61h, Ano61i, Ano62f, Ano62g,  
 Ano62h, Ano63f, Ano63g, Ano63h, Ano63i,  
 Ano64k, Ano64l, Ano64m, Ano64n, Ano65k,  
 Ano65l, Ano65m, Ano65n, Ano65o, Ano66s,  
 Ano66t, Ano66u, Ano66v, Ano66w, Ano66x,  
 Ano67t, Ano67w, Ano67x, Ano67y, Ano67z,  
 Ano67v, Ano67-27, Ano01c, Bos97, Buc99a,  
 CP99, Gri92, Hau96, Kle91, Kuo99, McG92,  
 Tro00b, Ano86b, Ano92a, Ano92h, Ano01n,  
 GM60, Mar62, Par98]. **Paprs** [Ano67g].  
**para** [HKvG<sup>+</sup>11]. **para-sexiphenyl**  
 [HKvG<sup>+</sup>11]. **Parabolic** [Pli66, Wid67].  
**paradigm** [RCFN<sup>+</sup>08]. **Parallel**  
 [ABC<sup>+</sup>99b, ARG00, CP72, CCC<sup>+</sup>79, Cha79,  
 CD85, Cve87a, CTT66, DKN87, DSM<sup>+</sup>99,  
 DGL<sup>+</sup>97, DEH<sup>+</sup>12, ECD<sup>+</sup>99, ET86, GPE99,  
 Kle91, Kog74, Mir69, RGP<sup>+</sup>97, RKW99,  
 RHM<sup>+</sup>99, SSM97, SCC<sup>+</sup>97, SWC<sup>+</sup>97, SG99,  
 SKE<sup>+</sup>18, VPS88, WMH<sup>+</sup>97, AGZ94b,  
 ABG<sup>+</sup>95, BSHM01, BHH03, BCR91,  
 CBV08, CFK<sup>+</sup>91, CN94, CLJ<sup>+</sup>10, CNC<sup>+</sup>08,  
 EG00, Fla91, JZ91, MKJM93, PMW06,  
 RQBW08, Sar91a, SSW91, SNP06, STW<sup>+</sup>08,  
 SZ91, VBC<sup>+</sup>08, ZEH<sup>+</sup>08, ABB<sup>+</sup>91, DP13].  
**parallelism** [AGZ94a, HS91, LDSY91].  
**parallelizable** [SG94b]. **parallelization**  
 [BBK<sup>+</sup>08]. **parallelized** [CJ91].  
**Paramagnetic** [SG64, Tit63]. **Parameter**  
 [FL59, LHW81, Rut59, TLR85, Twa77,  
 EKTT90, GFS71, Hos94, Sta73].  
**Parameterization** [ZHP<sup>+</sup>18]. **Parameters**  
 [CCD57, GOJN77, Lei62, WF87, DBNK<sup>+</sup>17,  
 NG17]. **Parametric**  
 [CHW75b, Okt69, ZZ69, Lan60]. **Parity**  
 [Pat85]. **Parkinson** [PAH<sup>+</sup>18]. **Parrinello**  
 [BBK<sup>+</sup>08]. **Parsers** [Mou86]. **parsing**  
 [MMB12]. **Part** [Hun59, KKS02, BLB<sup>+</sup>63,  
 Dun57b, DMN<sup>+</sup>59, Fri58b, FDN59, Kin61,  
 LDDDB63, Swa59, SS59b]. **Partial**  
 [BLR84, BRR79, CHL<sup>+</sup>11, Die62, Her66,  
 CFL67, Dan66, EC71, Ger73, KT70].  
**partial-response** [KT70].  
**Partial-Switching** [Die62]. **Partially**  
 [SMD80, DH03]. **Particle** [BTW62, Sta87,  
 Tan96, ETWO08, GRH<sup>+</sup>08, HRC<sup>+</sup>08].  
**Particle-induced** [Tan96]. **Particles**  
 [CHBH85, Sta86]. **Partition**  
 [SKLC20, AAM<sup>+</sup>07, SGK04]. **partitionable**  
 [SWB<sup>+</sup>91]. **Partitioned** [WF83].  
**Partitioned-Block** [WF83]. **Partitioning**  
 [AK82, DH73, Gha75a, Gha75b, HMW74,  
 Luk74, Luk75, PS80, Gup97, Mic72, Sar91a].  
**Partner** [BDMN14]. **Partner-marketing**  
 [BDMN14]. **pass** [MRG99, WRG99].  
**Passage** [SS82]. **Passing**  
 [BS85, AAC<sup>+</sup>05, LDSY91]. **Passivated**  
 [CL64, IBC64, Leh64, TY64]. **passivating**  
 [PM72]. **Passivation** [KLBP64]. **Passive**  
 [Sie63, SSK<sup>+</sup>16]. **past** [KLRS96, SLK<sup>+</sup>97].  
**pastes** [FGMPK05]. **Patch** [DB76]. **patent**  
 [MIL<sup>+</sup>18]. **Patents** [Ano57o, Ano57p,  
 Ano57q, Ano57r, Ano57s, Ano57t, Ano58n,  
 Ano58o, Ano58p, Ano58q, Ano59j, Ano59k,  
 Ano59l, Ano59m, Ano60m, Ano60n, Ano60o,  
 Ano60p, Ano61j, Ano61k, Ano61l, Ano61m,  
 Ano62i, Ano62j, Ano62k, Ano63j, Ano63k,  
 Ano63l, Ano63m, Ano66n, Ano66m, Ano66o,  
 Ano66p, Ano66q, Ano66r, Ano67n, Ano67o,  
 Ano67p, Ano67q, Ano67r, Ano67s, Ano94c,  
 Ano94d, Ano94e, Ano94f, Ano94g, Ano95d,  
 Ano95e, Ano95f, Ano95b, Ano95c, Ano96a,  
 Ano96b, Ano96c, Ano96d, Ano96e, Ano96f,

Ano97b, Ano97c, Ano97d, Ano97e, Ano98b, Ano98c, Ano98d, Ano98e, Ano98f, Ano99c, Ano99b, Ano99d, Ano99e, Ano00e, Ano00b, Ano00c, Ano00d, Ano01d, Ano01e, Ano01g, Ano01h, Ano01f, Ano64f, Ano64g, Ano64h, Ano64i, Ano64j, Ano65f, Ano65g, Ano65h]. **patents** [Ano65i, Ano65j, Ano86a, Ano90a, Ano90b, Ano92b, Ano92c, Ano92d, Ano93d, Ano94h, Ano94i]. **Path** [CCE<sup>+</sup>88, Col62, Fra87, GLP76, GS74, HJK<sup>+</sup>01, Mat62b, Pri58c, Sve78, GCL<sup>+</sup>19, vK62]. **Paths** [MS60b, HT69, Rai69]. **Pathway** [SPS<sup>+</sup>06]. **Pathways** [RSS<sup>+</sup>15]. **patient** [PMS<sup>+</sup>08, Sha12]. **patient-centric** [Sha12]. **Pattern** [Bon62, Bra80, DB69, EL80, EL83, KR87, KGF77, MD65, PS80, TC84, AL76, FRPG01, GK64]. **pattern-based** [FRPG01]. **Pattern-Matching** [KR87]. **patterned** [Duk93, SGS<sup>+</sup>09]. **patterning** [MBB<sup>+</sup>01, PSP06]. **Patterns** [FGS75, Ham78, Sta84a, Bar82, CR15, FSG<sup>+</sup>73, Hat72, RWB<sup>+</sup>10, RC17, WLEF89]. **Pb** [BKM80a, BJMO80, HHA93, Hor98]. **Pb-alloy** [BKM80a, BJMO80]. **PC** [Shi85, CFK<sup>+</sup>91]. **PC-Based** [Shi85]. **PCI** [GCS<sup>+</sup>12, SNA02]. **PCIXCC** [AV04]. **PCOS** [Cal70]. **Pd** [Dem78, Kah71]. **PdO** [Kah71]. **PdO/Ag** [Kah71]. **PdO/Ag-Pd** [Kah71]. **PdSn** [OHWR88]. **Peak** [BTW62]. **Peculiar** [Mid65]. **pedestal** [GAOD71, SLYR72, ZCK71]. **pedestrian** [BMS<sup>+</sup>17, Tof04]. **pedestrian-centered** [BMS<sup>+</sup>17]. **PEEM** [CHL<sup>+</sup>11, HDK<sup>+</sup>11, YTF<sup>+</sup>11]. **peer** [RK15, TBH<sup>+</sup>17]. **Penalty** [Lin84, MHI01]. **Penalty-Function-Driven** [Lin84]. **PENGUIN** [dTGHC92]. **Penrose** [HM89]. **people** [CGM<sup>+</sup>15a, DDDKW12]. **Perception** [Ano59n, SMSC14]. **perceptions** [AWK20]. **Perceptual** [San83b]. **PERCS** [RAG11]. **Percus** [HBW70]. **Performance** [ABPS66, Ano06b, Arc93, BCD<sup>+</sup>17, Bar75, BS81, BGR82, BDMW81, BB82, BAH82, Bos97, BBI94, BBKW86, CDS<sup>+</sup>86, CDSW06, CDW75, CW77, Cve87a, DHSC64, DAS<sup>+</sup>94, DS70, Dur70, Esa62, FCE<sup>+</sup>15, GCPVG85, Gia66, GA84, GMS<sup>+</sup>12, HS81a, HS61, HCBA82, HS82, KFB<sup>+</sup>97, Kam98, KW76, KACS95, OK82, Pat73, RS79, RTM65, Sch81, SGC<sup>+</sup>87, WHC<sup>+</sup>18, AFP<sup>+</sup>01, AGZ94a, AGZ94b, AGZ94c, ADH<sup>+</sup>00a, AAB<sup>+</sup>10, AAC<sup>+</sup>06, BLM<sup>+</sup>92, BCC<sup>+</sup>12, BEM<sup>+</sup>92, BBE<sup>+</sup>20, BBH<sup>+</sup>95, BFG<sup>+</sup>06, BSJ<sup>+</sup>13, BDHH<sup>+</sup>09, BBS<sup>+</sup>03, Bro72, BGL<sup>+</sup>92, CPvR00, CH06, CBB<sup>+</sup>05, CRDI07, DHSC00, DDA<sup>+</sup>93, DKS<sup>+</sup>95, ESHM95, EB91, EFR<sup>+</sup>05, EBD<sup>+</sup>95, EG00, Emm97, EK08, EWS<sup>+</sup>13, FKK<sup>+</sup>03, FHSD06, FNY<sup>+</sup>10, FAJ<sup>+</sup>94, GZE<sup>+</sup>05, GOVC71, GAOD71, GW18, GJ00, Gus03, Hat72, HS04, ITS<sup>+</sup>15, Irv91, IS20, IFB<sup>+</sup>11, JL99, JWS<sup>+</sup>09, KBK<sup>+</sup>97, KPT<sup>+</sup>02, Kum92, KEL<sup>+</sup>00]. **performance** [LR97, Luc99, MCAW95, MIL<sup>+</sup>18, MSW<sup>+</sup>05, Mat89, Mat03, MWL<sup>+</sup>14, MPP<sup>+</sup>15, MZS<sup>+</sup>03, Ono93, PV93, RES<sup>+</sup>15, RAG11, RKW99, RHM<sup>+</sup>99, Rub90, SHWK<sup>+</sup>90, SGS<sup>+</sup>96, SBP<sup>+</sup>03, SWC<sup>+</sup>95, SC20, SPR<sup>+</sup>95, SWC<sup>+</sup>97, SV91, SLJ<sup>+</sup>15, SHL<sup>+</sup>20, TWX<sup>+</sup>10, TW69, Tol97, TFL<sup>+</sup>98, TKK<sup>+</sup>92, VLB<sup>+</sup>09, WCNSH94, WBS<sup>+</sup>18, WKD98, WNW<sup>+</sup>10, YSH12, ZCLS10]. **Performance-optimized** [FCE<sup>+</sup>15]. **Performances** [MW79]. **period** [TYM<sup>+</sup>14]. **Periodic** [LC80, Mil83, Mir61, Bau72, CPvR00]. **Permalloy** [Ahn66, DKAC67, GM63, KC66b]. **Permanent** [BH82, JT66, YTF<sup>+</sup>11]. **permission** [SBG<sup>+</sup>13]. **Permissive** [GW57a, GW57b]. **Permissive-Make** [GW57a, GW57b]. **Permits** [Lew83]. **Permutation** [BF77, BCH84]. **Permuting** [CLW80]. **Perot** [Fan64]. **perovskite** [GSG<sup>+</sup>90]. **perovskite-type** [GSG<sup>+</sup>90]. **perovskites** [SKEG<sup>+</sup>98]. **perpendicular** [Sun06]. **Persistent** [CGR88, Gar57]. **Persistent-Supercurrent** [Gar57]. **person**

[CPCC18]. **person-generated** [CPCC18]. **Personal** [GBS<sup>+</sup>87, ABD<sup>+</sup>14, BC18, Shi85]. **personalized** [BEJ<sup>+</sup>14, RSS<sup>+</sup>15]. **Perspective** [Har81, AG06, ACM01, Bra69, CNG09, CDM92, DDZ<sup>+</sup>07, GBK<sup>+</sup>19, SG99, Tan96, WCT06]. **perspectives** [MD12a]. **PERT** [Nad79, KC66a]. **Perturbation** [Bog79, Par60]. **pervasive** [JSM<sup>+</sup>18, WPL<sup>+</sup>12]. **Petabytes** [WGF<sup>+</sup>06]. **petaflops** [GBW<sup>+</sup>09, LQRS04]. **petascale** [PLK09]. **Petri** [PS86]. **Pg** [MHI98, SW98]. **pH** [DR93, JK93]. **Pharmit** [Koe18]. **Phase** [BF63, BBG60, CJ78b, CDH64, DG84, Dui59, GS70, GBC65, Hop61, Kov59, MP81, RBB<sup>+</sup>08, SJK70, Sha58a, Hun71, LG88, Nob95a, Ros00, Tis90, Woo04, YL98]. **Phase-change** [RBB<sup>+</sup>08]. **Phase-Contrast** [Kov59]. **Phase-Hologram** [SJK70]. **Phase-Reversal** [CDH64]. **Phased** [RBK<sup>+</sup>08, LGBV17]. **Phaser** [RBK<sup>+</sup>08]. **Phases** [Pan78]. **Phenomena** [BT84, KH88, LeB62, MNP<sup>+</sup>69, RP67, SBdF64, Tro80, MNS69, SNM69]. **Phenomenological** [O'H78]. **philanthropic** [LHS<sup>+</sup>17]. **philanthropy** [CCE<sup>+</sup>20]. **philosophical** [GHN04]. **Philosophy** [AST67a]. **phonological** [MC87]. **Phonon** [YWWK64]. **Phosphorus** [JD66, JD67, MFPJ71]. **Phosphorus-Diffusion** [JD66]. **phosphorus-impurity** [MFPJ71]. **Photo** [EHHP67, MC68, Gri69, MS89, OCT68]. **Photo-** [MC68]. **photo-digital** [Gri69, OCT68]. **Photo-Optical** [EHHP67]. **photo-polymer** [MS89]. **photoablation** [VDP94]. **Photochemical** [GFHW82, PL79, VM79]. **Photochemistry** [BH79]. **Photoconducting** [Boe69]. **Photoconduction** [Cas71]. **photoconductive** [SG71]. **photoconductor** [Sch71]. **Photocurrents** [DA77]. **Photodecomposition** [Her66]. **photodetector** [KACS95]. **Photoelectric** [AC63]. **Photoelectrochemical** [Koh98]. **Photoelectron** [RF78, KWT<sup>+</sup>11, MPHC90]. **Photoemission** [Bru78, DV74, CBBS90, RG90]. **Photographic** [BT67, Fal70, ZG65]. **Photographs** [Har63]. **Photography** [BLLS79, MG62]. **Photoinduced** [GDR70]. **Photolithographic** [Sta84a]. **Photolithography** [Rot74, ATW97, Lin76]. **Photon** [BH79, Gar64, Loy79, MNR86]. **Photoproducts** [Her66]. **Photoresist** [DS77, Mid70b, SFD77, RKL88a]. **Photoresists** [AWHK97, PL79, SGL<sup>+</sup>97]. **photothermal** [vS98]. **Photovoltages** [Swa61]. **Photovoltaic** [Lew78b, Mer78]. **Phrase** [SFT78]. **Phthalocyanine** [SLLP64, SL66]. **Physical** [BWB<sup>+</sup>20, Cor82, DHK<sup>+</sup>92, MM82, PK88, Pri58c, Swa60, AEZ84, AAM<sup>+</sup>07, BBD<sup>+</sup>02, BAB<sup>+</sup>07, BHD<sup>+</sup>05, HHSW01, SGK04, WKP<sup>+</sup>02, WBS<sup>+</sup>18, CP91]. **physicist** [Tan96]. **Physics** [CD85, Fri69, KN81, Kuh88, Bev69, CFL67, HST06, Mol69, Tan96]. **Physiome** [NNN<sup>+</sup>06]. **PI** [Shi85, Kau81]. **Pi-Donor** [Kau81]. **Picosecond** [CBBS90, Hei90, MPHC90, TKV00, RHC73, WSDL90]. **Picture** [Sto91]. **Pictures** [Kan78]. **Picturing** [Pic91, Woo04]. **piece** [WS72]. **Piecewise** [RR87]. **Piecewise-Circular** [RR87]. **Piezo** [JJ64]. **Piezo-Hall** [JJ64]. **Piezo-Resistance** [JJ64]. **Piezoelectric** [BBT83, Vie86]. **pilot** [ATW97]. **Pins** [HW87, PW83]. **Pioneer** [WM92]. **pipe** [TMS98]. **pipelined** [EV93]. **pipelines** [ZS03]. **pipelining** [KZP03]. **piston** [GZM92, Gre60]. **pitch** [KAB<sup>+</sup>05]. **Pivoted** [SM63, BHHO59]. **pixel** [SS00]. **PL8** [GHL<sup>+</sup>04]. **PLA** [Sch80]. **Placement** [DKN87, HY84, Twa77, HHSR96, SKLC20]. **Placements** [Don81]. **Planar** [AA71, CL64, KO65a, KO66, KO69b, vM66, ABK89, BGO03, SAK70, You90]. **planarization** [GPL<sup>+</sup>92, WDA05]. **Planck** [HJ88]. **Plane** [BC65, Blu79b, SM63].

**Planes** [BBC<sup>+</sup>64]. **Planet** [Pal14, CRHPP09, Jen10, MVCW10, MI10]. **planned** [CHMW07]. **planner** [SG94b]. **planners** [GBJ<sup>+</sup>08]. **Planning** [Buc62, Tay79, ABD<sup>+</sup>14, GCFW07, JWW<sup>+</sup>11, KRTN<sup>+</sup>12, LB07, LSS14, PKXK07, SGS<sup>+</sup>96]. **plans** [HRS07]. **Plant** [MW82, HHM70]. **Plasma** [AS78, AHW<sup>+</sup>99, CK79, CNS<sup>+</sup>99, EM94, Fon99, Gri99, Hes99, KOT99, Kuo99, Luc99, MM64, OR92, RS69, BBH82, GMP90, Ham99, MMJ69, Ngu99, ODK<sup>+</sup>99, VDP94]. **Plasma-assisted** [CNS<sup>+</sup>99, Hes99, GMP90]. **Plasma-based** [OR92]. **Plasma-deposited** [Gri99]. **Plasma-etching** [AHW<sup>+</sup>99]. **plasmas** [ETWO08]. **Plasmons** [Mor79]. **Plastic** [DH61, CF72, Pai72]. **plastic-encapsulated** [Pai72]. **Plate** [CCC<sup>+</sup>79, Cha79, CASP91, DKRS07]. **plates** [CP91, CAS<sup>+</sup>91, CASP91, MKJM93, Pen91]. **Platform** [MBB<sup>+</sup>18, ZSY<sup>+</sup>13, BBE<sup>+</sup>13, CGM<sup>+</sup>15a, CHM<sup>+</sup>16, DGH<sup>+</sup>14, HKA<sup>+</sup>13, HSS<sup>+</sup>10, IBP<sup>+</sup>05, IJV19, KAA<sup>+</sup>18, LRV<sup>+</sup>09, PMS<sup>+</sup>17, RRMD17, SFH<sup>+</sup>16, TBB<sup>+</sup>09, WHC<sup>+</sup>18, YSH12]. **platforms** [GDA14, HRZ14, KdAC<sup>+</sup>15, ZCLS10]. **Plating** [BLR84, BRA84, HSM84, vAR82, GB93, JK93, VBDA05, WKD98]. **Playback** [Fan61]. **playfulness** [CR15]. **Playing** [NSS58]. **PLL** [VMG99]. **plot** [PS91]. **Plotter** [Kro58]. **Pneumatic** [Voi65]. **pnp** [Gil79]. **PNPN** [KK59]. **poaching** [FNS<sup>+</sup>17]. **Point** [ABC<sup>+</sup>99b, BD96, Cli90, DK67, Kar74, LC80, RS67, SW90, AEGP67, CBB<sup>+</sup>05, DTH92, DXZS13, DDZ<sup>+</sup>07, GWS<sup>+</sup>04, HFH94, HM90, JO96, MHR90, RS66, SSM97, SK99, SKC09, SG94a]. **Point-Matching** [LC80]. **Point-To-Point** [Kar74]. **Points** [MLGD84, McA83]. **Poisson** [BSHM01]. **Polarimetric** [Beb62]. **Polarity** [Cor84]. **Polarization** [Cha79, KH75]. **Polarized** [BBT83, Le 62, Mar61, All00]. **polarizing** [TMS98]. **Polarographic** [Hor98]. **Polarons** [CCE<sup>+</sup>88]. **policies** [BBC<sup>+</sup>09]. **Policy** [Kan74, KKB<sup>+</sup>09a, Pea09, EWBR09, HHC<sup>+</sup>18, NBM<sup>+</sup>19]. **Polishing** [GBC65]. **pollution** [CXZ<sup>+</sup>17]. **Poly** [Blu79a, GOJN77, Hir77]. **Polycrystalline** [BV78, Cha69]. **Polydisperse** [SH63]. **Polygonal** [MS87, SN87]. **polygons** [MN90]. **polyhedra** [MN90]. **Polyhedron** [AW76]. **Polyimide** [GS84, DN97, KFSZ92, LCL<sup>+</sup>98, RKL88b, SRD94]. **Polymer** [BRB<sup>+</sup>07, BBT79, GSVE83, Gre68, RSSS82, TO77, EM94, HSH<sup>+</sup>88, KJSG<sup>+</sup>88, MS89]. **Polymeric** [BS77, SSTF77, LG88]. **Polymers** [AGLM85, BMW83, BP84, CSS83, GFHW82, HG83, Kau81, LY83, SC81, Ang01, Bro94, Ito01, LV94]. **Polymorphism** [VBM71]. **Polynomial** [FC63, LR65b, Rog66, Dor62, HA00, Kri82, NQ78, Sur69]. **Polynomials** [Meg63b, Meg63a]. **Polypyrrole** [DH83, DVM81]. **polySi** [GNF06]. **Polysilicon** [GS80, RWC80, SGC<sup>+</sup>87, LBT99]. **pooling** [GSAB93]. **Population** [Dum63, BISN<sup>+</sup>12, Can73, Lam77b]. **Porphyrin** [VM79]. **portability** [BBE<sup>+</sup>20, GW18]. **Portable** [ZSZ96]. **portal** [Tag09]. **portfolio** [BKN10, VRL10]. **portfolios** [GRS13, GMX14, MR14]. **Porting** [PLS20]. **Posets** [MR76a]. **Position** [KST58, Tin62, Ull65, DDMS92]. **Positioners** [Her65]. **Positioning** [MR76b, Osw74]. **Positive** [Koz81a, Koz81b, Mur57, SFD77, HHSW01]. **Positive-Integer** [Mur57]. **positive-tone** [HHSW01]. **Positron** [Pet89]. **Possession** [Sau81]. **Possibility** [KW62]. **Possible** [Gli69, Gom86, ZCK71]. **Post** [PSH80, DFF<sup>+</sup>15, HHSW01]. **Post-Detection** [PSH80]. **post-exposure** [HHSW01]. **post-silicon** [DFF<sup>+</sup>15]. **Postprocessing** [RH75]. **posts** [VMAB18]. **potable** [BR09b]. **Potential**

[BLR84, CRAG18, CL74, KWB88, MW80a, RVV88, Sak79, TY64, TR77, UC62, DC73b, GC68, GBBM90, Les71, TMW<sup>+17</sup>]. **Potentials** [Erd88, HB74, Swa57, ABF<sup>+10</sup>]. **Potentiometer** [MPD86]. **powder** [HHB<sup>+89</sup>]. **Power** [BDMW81, BAV<sup>+09</sup>, CNV<sup>+15</sup>, CFP<sup>+07</sup>, Fra02, Gau77a, Hor76, MN67a, Mar64c, RP67, Wel61, ZFG<sup>+11</sup>, Ano01c, BPG<sup>+16</sup>, BZ06a, BJM<sup>+06</sup>, BBH<sup>+95</sup>, BSJ<sup>+13</sup>, BHH03, BBS<sup>+03</sup>, CH06, CT06, Cov92, CAC<sup>+05</sup>, EB91, EBD<sup>+95</sup>, FGK<sup>+07</sup>, FDS<sup>+13</sup>, GAJ<sup>+16</sup>, HSL<sup>+10</sup>, JGD<sup>+08</sup>, KAD<sup>+16</sup>, KKM02, KBC<sup>+03</sup>, MAB<sup>+03</sup>, MZS<sup>+03</sup>, PZK<sup>+03</sup>, RMM20, SBP<sup>+03</sup>, SPR<sup>+95</sup>, SAB<sup>+02</sup>, SCG<sup>+13</sup>, TBG<sup>+15</sup>, WLB<sup>+15</sup>, WLS<sup>+20</sup>, Yet89, ZTC<sup>+13</sup>, Gsc16]. **Power-constrained** [CFP<sup>+07</sup>, Fra02]. **power-on** [KKM02]. **power-performance** [BBS<sup>+03</sup>]. **Power/Performance** [BDMW81, BBH<sup>+95</sup>]. **POWER2** [FAJ<sup>+94</sup>, AGZ94a, BGAJ94, HFH94, SG94a, WCNSH94, WD94, HF94]. **POWER3** [OW00]. **POWER4** [BKRF02, BMK<sup>+05</sup>, LRH<sup>+02</sup>, TDF<sup>+02</sup>, WKP<sup>+02</sup>]. **POWER5** [AAB<sup>+05</sup>, MMS05, MMM<sup>+05</sup>, SKT<sup>+05</sup>, VLP<sup>+05</sup>, Ano05c]. **POWER6** [PC07, AAM<sup>+07</sup>, BSK<sup>+08</sup>, BAB<sup>+07</sup>, CFP<sup>+07</sup>, EWT<sup>+07</sup>, FGK<sup>+07</sup>, LSF<sup>+07</sup>, MSSM07, MBF<sup>+07</sup>, SKK<sup>+08</sup>]. **POWER7** [BAB<sup>+13</sup>, FDS<sup>+13</sup>, LBB<sup>+13</sup>, Rit13, ZTC<sup>+13</sup>, AHHN11, FWR<sup>+11</sup>, FPB<sup>+11</sup>, RAG11, SRL<sup>+11</sup>, SKS<sup>+11</sup>, WBD<sup>+11</sup>, ZFG<sup>+11</sup>]. **POWER7-IH** [RAG11]. **POWER8** [CNV<sup>+15</sup>, DFF<sup>+15</sup>, LGW<sup>+15</sup>, MPP<sup>+15</sup>, PMV15, RES<sup>+15</sup>, SLA<sup>+15</sup>, SSN<sup>+15</sup>, SVE<sup>+15</sup>, SSD<sup>+15</sup>, ZFD<sup>+15</sup>]. **POWER9** [ABD<sup>+18</sup>, CBC<sup>+18</sup>, FRS<sup>+18</sup>, JML<sup>+18</sup>, KHK<sup>+18</sup>, LVT<sup>+18</sup>, NAN<sup>+18</sup>, Pat18, SAA<sup>+18</sup>, SDS<sup>+18</sup>, SSI<sup>+18</sup>]. **PowerNP** [ABB<sup>+03</sup>]. **PowerPC** [Wai05, BBH<sup>+95</sup>, BCJ<sup>+96</sup>, BEKK00, BBGP94, HF94, JO96, KMH<sup>+98</sup>, LR97, NCB03, OW00, SLC<sup>+97</sup>, SBP<sup>+03</sup>, VMM<sup>+94</sup>]. **PowerStorm** [GH96]. **PR** [SKLC20]. **PR/SM** [SKLC20]. **Practical** [Rog66, WMK<sup>+07</sup>, HRW69]. **practice** [KSB07, Wal86, WBT<sup>+10</sup>]. **practices** [Mal13, PP09]. **pragmatic** [WN92]. **Pre** [And73, LSS<sup>+20</sup>, TWM<sup>+14</sup>, BW16, CBV08]. **Pre-Emptive** [And73]. **Pre-exascale** [LSS<sup>+20</sup>]. **pre-harvest** [BW16]. **Pre-release** [TWM<sup>+14</sup>]. **pre-stack** [CBV08]. **preamplifier** [KACS95]. **Precipitation** [JD67, MPCF82]. **Precise** [Hua79, KKS<sup>+73</sup>, San83a, SLK<sup>+16</sup>, THL85]. **Precision** [GHW<sup>+20</sup>, RSL<sup>+70</sup>, MR72]. **precursors** [ZHP<sup>+18</sup>]. **predict** [TCP<sup>+16</sup>]. **Predicted** [MW79]. **Predicting** [Bry75, FNS<sup>+17</sup>, LRNS17, TPTH20, WSCK17, VMS<sup>+14</sup>]. **Prediction** [Doo83, KB74, AKB<sup>+17</sup>, BC00, EHLW01, HHR99, ITS<sup>+15</sup>, RQBW08, SJZ<sup>+15</sup>, TMS<sup>+01</sup>]. **Predictive** [GCPVG85, WLH<sup>+17</sup>, AHN<sup>+03</sup>, BK74, EÖH10, GWB<sup>+17</sup>, GAJ<sup>+16</sup>, KB74, PCW<sup>+17</sup>, VVHL16]. **Preface** [AS06, Ano67t, Ano19g, Ano19h, Ano19i, Ano19j, Ano20d, Ano20e, Ano20f, Att92, BSD09, BNS15, BR09a, BR17, BFH10, Bos97, Bra05, Bra03, Buc99a, BJ06b, CK17a, CP99, CK17b, CRH12, CN18, CGR05, Cor18, CS02, DFS98, DA04, DS03, DLN14, Don90, Don92, Eic18, EJ03, Far91, Fle95, FHL<sup>+14</sup>, FS05, GP06b, Gar00, Gon99, Gri92, GP09, HI06, Har01, HPW11, Hau93, Hau96, Hef01, HHR08, HT16, HF94, HNRiC07, Hor93, Hor00, HO96, IK00, ISV16, Jor04, KN08, Kle91, Kni08, Kog94, Kos15, Kua95, Kue90, Kuo99, LCB93, Lip92a, Lun02, MVCW10, Mau97, May90, McG92, MW09, Meh07, Min08, Mit94, NHH91, Opr03, Pal14, PWW13, PD10, PMV15, Pat18, Rao16, RM10, RS14, RR02, Rit13, Sch07, Sch04, STCR84, SGESR10, SNB<sup>+09</sup>, Sof13, SS15, Sol02, SCR01]. **Preface** [Ten05, Tro00b, TH11, Tur02, Tur07, Vay12, War93, Wes90, WR95, Wil09, WCRiC10, WH94, You57, ZS96]. **prefetch**

- [AGZ94c, BCK13]. **Prefetching**  
[CP97, EHPS05]. **Prenucleation** [JC63].
- Preparation**  
[DO74, Moh70, SG77, YHA71, OS99].
- Prepared** [DH83]. **preparedness**  
[PKXK07, SLK<sup>+</sup>16]. **Prescribed**  
[CS65a, Rem67]. **prescriptive** [GAJ<sup>+</sup>16].
- Presence** [Eli58, HC78, KWB88, Rad62, KLHW16, Lom77]. **Present** [Har81, Bar62, KLR96, SLK<sup>+</sup>97, Sor79, Sor00].
- preservation** [RCFN<sup>+</sup>08, RCFN<sup>+</sup>08].
- Preserving** [Irv89]. **President** [Age04, Age05, Age08, Bal05, Che06, Che08, DR08, Des02, Des04, Lom00, Mey03, Nun09, Pea09, Pic18, Pri07, PS09, Pul07, San12, Viv14].
- presilicon** [KAB<sup>+</sup>12]. **Pressure**  
[BMC86, MNP<sup>+</sup>69, SAL63, Swe62, SR71].
- Pressurized** [BT78, BFT79]. **pretty**  
[Fre04]. **PREVAIL** [DEG<sup>+</sup>01]. **Preventive**  
[Ada84]. **Previous**  
[Ano57j, Ano58g, Ano58h, Ano58i, Ano59e, Ano60f, Ano60g, Ano60h, Ano61e, Ano62d, Ano63e, Ano66g, Ano66h, Ano66i, Ano67h, Ano67i, Ano67j, Ano67k, Ano67l, Ano67m].
- Pricing** [Low74]. **Primary** [LMHM96].
- Primitives** [Woo87, CIJ<sup>+</sup>10, PAH<sup>+</sup>18].
- Principal** [Kan78, SM78]. **Principle**  
[Bar80]. **Principles**  
[GHK67, Hoh78, Mal13, Wal86, BTP<sup>+</sup>90, CP91, Gyg08, PMLA88, PP09]. **Print**  
[Car77, CEY84, ELZ79, Hen83, Pre66, Sta97, SW90, Zab79, CFW82, KL63, ZH89].
- Print-quality** [Sta97]. **Printed**  
[BDWZ83, BAH82, GHKO57, Has62, Has66, LDL84, Man85, Ser82, STCR84, Wal58, Wym57, ABM88, BBMP92, Cha88, DDMS92, GA88, HM71, Pau89, Whi93, WGC93].
- Printed-Circuit**  
[BDWZ83, BAH82, Ser82, Wal58].
- printed-circuit-board** [ABM88]. **Printer**  
[ABB<sup>+</sup>85, AEE77, BS84a, BHR77, BCD<sup>+</sup>85, Bro78, BHW77, CD78, Car77, FBW77, FLR77, GT87, MR79, NK81, Sve78, Twa77, Zab79, VW78, WS72, ZH89]. **Printers**  
[BS84b, CEY84, Hel79, ZL87, Sta97].
- Printing**  
[BS84a, BS78, BBT83, BD96, CS85, DLK84, EHMW81, FLS78, LMT84, MTS84, MBB<sup>+</sup>01, Mil84, MT84, PC85, Pre66, Twa85, Zab77, BLDM97, BGK<sup>+</sup>82, CP91, CAS<sup>+</sup>91, CASP91, Mas97, Pen91, ZL97].
- Printwheel** [May85]. **priorities** [BBMR19].
- Priority** [And73, GS75, MT77]. **prismatic**  
[MKP73]. **Privacy**  
[GDA14, KKT09, Pea09, RM09, BBC<sup>+</sup>09, CNG09, GDB16, HLZ<sup>+</sup>09, JMLW94, KKB<sup>+</sup>09a, KMO<sup>+</sup>14, PP09, VTC09].
- privacy-aware** [VTC09].
- Privacy-value-control** [RM09]. **Private**  
[Hop61, Yar12, BHH19]. **Prizma** [Eng03].
- Proactive** [CHH<sup>+</sup>01, WLS<sup>+</sup>20].
- Probabilistic** [Nad79, Kob71, QGT13].
- Probabilities** [Bar80, SH57b, SH57c].
- Probability** [PM88]. **Probe**  
[FT77, KKK61, PSA<sup>+</sup>08, MTF<sup>+</sup>95, Poh95].
- Probe-based** [PSA<sup>+</sup>08]. **Probing** [ALH95, CBBS90, LPMDG14, RG90, WSBL90].
- Problem** [ADST78a, GR58, HP63, HHJW84, HS81b, NSS58, Pal61, Pim76, RD12, SM78, Sch62b, Sch63, SS87b, Tid62, AAA<sup>+</sup>17, ADST78b, BH80, BK61, BGK62, DHMP94, Ger73, GS72a, Joh87, Mic72, Ray69, VJA07, WYF<sup>+</sup>03, Yan07].
- Problem-Determination** [HS81b].
- Problem-oriented** [RD12].
- Problem-Solving**  
[ADST78a, GR58, ADST78b, WYF<sup>+</sup>03].
- Problems** [Bil70, Cha79, HWC75, HE10, Key65, Key70, Kog74, LC80, MD65, RS59a, RS67, Tuc60a, dG58, BS71b, CP72, CFP20, CHG04, Don69, Gre59, GCFW07, GS72b, Ism00, Key71, Lei61, Mas97, PZGL91, RS66].
- Procedural** [Gro76, Lom76]. **Procedure**  
[MS75, Har71, Her72, Lom77]. **Procedures**  
[Ada80, GS74, HP66, HKM<sup>+</sup>86, Kin61, MP88a]. **Process**  
[Agn02, Ame80, BHV85, BJMO80, CH82, Dah67, DS65, Fan61, GS82a, GKK<sup>+</sup>80,

GS82b, HCS80, KS79, KGCS85, Law02, Mar60a, Mey90, Mey00a, OHM<sup>+</sup>85, SSL73, SRH<sup>+</sup>18, Twa85, Was77, ABM88, Cal70, CPTW98, CGN72, CKE<sup>+</sup>10, DN97, HHSW01, KKM02, KRT98, Lan61, Lan00a, LV94, Mah93, SBG<sup>+</sup>71, SKC<sup>+</sup>10, Sta76, Sta00, Stu70, VW78, Van97, WSE<sup>+</sup>16].

**process-characterization** [CPTW98].

**processed** [LCL<sup>+</sup>98].

**Processes** [Die62, FL59, Hat88, Meg62, Mid70a, NB61a, NB61b, Red57, STCR84, Wes90, AHW<sup>+</sup>99, Bea90, CNC<sup>+</sup>95, FSG<sup>+</sup>73, Hei80, LB07, LCHL95, MD12b, OS99, RWM<sup>+</sup>05, Ros00, SPP72, See93, WT91, vS98].

**Processing** [ABC<sup>+</sup>85, ABB<sup>+</sup>91, And65, Ber76b, BKU88, BHW77, Bur75, BDH76, CCP85, Dav77, DB76, DMP59, FLDC86, FGM<sup>+</sup>83, GBK<sup>+</sup>19, HF78, HAG<sup>+</sup>13, Kin61, Kle91, Kuo99, MW80a, May81, Moh70, Mur57, PSH80, Shi85, Tas57, WSW83, Woo87, AKB<sup>+</sup>17, ARG00, ARS<sup>+</sup>17, BK75, BBH82, CGLL93, CGS61, EB99, Fon99, FNY<sup>+</sup>10, GON<sup>+</sup>06, GLM<sup>+</sup>96, Ham99, KVP<sup>+</sup>20, Kuo92, KOT99, Luc99, Mar98, MIL<sup>+</sup>18, MP82, MKJM93, NAB<sup>+</sup>15, PB89, RB92, SPR<sup>+</sup>95, Sto91, CMP87].

**Processing-in-memory** [GBK<sup>+</sup>19, NAB<sup>+</sup>15].

**Processor** [All81, Ber85, Co082, DR82, Fre67, GCPVG85, GS82b, LS76a, MSB<sup>+</sup>04, NHH91, PPS82, Ser82, SBJS15, TS82, Tsu80, UMK<sup>+</sup>85, ABB<sup>+</sup>03, ABD<sup>+</sup>18, AEH<sup>+</sup>04, BGM90, BHH<sup>+</sup>15, BSK<sup>+</sup>08, BCF<sup>+</sup>07, BDHH<sup>+</sup>09, BAB<sup>+</sup>13, BEKK00, BKRF02, CJ83, CNSS12, DTH92, ESA02, Emm97, FAD<sup>+</sup>07, FNY<sup>+</sup>10, FXB<sup>+</sup>10, FAJ<sup>+</sup>94, GGRW91, GH96, GMS<sup>+</sup>12, Gro90, Haj91, HDW<sup>+</sup>07, HF04, HSL<sup>+</sup>05, JZ91, KBG<sup>+</sup>09, LGW<sup>+</sup>15, LVT<sup>+</sup>18, LBB<sup>+</sup>13, Lip92b, LJV<sup>+</sup>07, MWS09, Mar90, MDR<sup>+</sup>07, MME<sup>+</sup>97, MZS<sup>+</sup>03, OG90, PBBL07, RB90, RWW07, RG09, SKK<sup>+</sup>08, Sar91b, SCS<sup>+</sup>02, SKC09, SHL07, SKS<sup>+</sup>11, SVE<sup>+</sup>15, SKS<sup>+</sup>20, Sta90, SSD<sup>+</sup>15, SRH<sup>+</sup>18, SBC<sup>+</sup>12, TSC91, WMB<sup>+</sup>15, War90, WBD<sup>+</sup>11, WBH<sup>+</sup>04, ZDB<sup>+</sup>18, RSNG82].

**processor-based** [CJ83, SKS<sup>+</sup>20].

**processor-performance** [Emm97].

**Processors** [AK82, CW77, Tod78a, Aus90, BBMP92, BS95, BRB92, BMK<sup>+</sup>05, CNV<sup>+</sup>15, CMR<sup>+</sup>90, CTS<sup>+</sup>92, CDD<sup>+</sup>10, Cov92, DGG<sup>+</sup>92, EV93, HOWP92, OW00, SLC09].

**procurement** [GSAB93].

**Produced** [Hut74].

**Product** [Cle83, KB06, SMD80, BMT<sup>+</sup>90, BKP82, EBD<sup>+</sup>95, Fil70, RAMD19].

**Product-representative** [KB06].

**Production** [DBG<sup>+</sup>84, DKRS07, DS65, GAC85, Kov59, WWK<sup>+</sup>87, BKF<sup>+</sup>16, DBG<sup>+</sup>00, LMHM96, MS89].

**Productivity** [FT80, LKL<sup>+</sup>81, SMD80, LRMT95].

**Products** [Ada84, Wes90, DKRS07, EGH<sup>+</sup>96, GSAB93, LZZ<sup>+</sup>16, LCHL95, Man90, Pat89].

**professional** [NRA<sup>+</sup>07].

**Profile** [Gil84].

**Profiles** [JD66, KP80, FKOW16, KRC68, MFPJ71, Okt69, Pai72, PL73].

**Profiling** [CW78].

**prognosis** [SLK<sup>+</sup>97, SSB<sup>+</sup>12].

**Program** [Bar73, Bon62, BCGS81, Chi86, DGB78, Don80, Fer75, FE75, FGS75, GHP<sup>+</sup>85, Knu90, OHM<sup>+</sup>85, Paz75, Pri07, PS09, RR83, ABL<sup>+</sup>84, BBF<sup>+</sup>04, BCGS00, CDSW06, Col69a, Hat72, Hei94, KN91a, KSL95, LFF90, MS96, PBBL07, Sar91a, Sed67, TBH<sup>+</sup>17].

**Programmable** [Cow87, EL80, GLL80, LBH<sup>+</sup>75, Wei79, Woo75, HAMC<sup>+</sup>04, MMWLN99, Mey81, MZS<sup>+</sup>03, SKSP06].

**Programmed** [ET69].

**programmer** [LR97].

**Programming** [DLW86, Hei76, KGBB09, LG78, Len58, LW77, Luc81, Sam81, SH84, Tuc60b, Alf89, AKE<sup>+</sup>92, Bei92, BCR91, Bur72, CFK<sup>+</sup>91, CCF<sup>+</sup>10, Gsc09, dTGHC92, HKLM97, JP94, Joh87, Kel73, Lee07, MAA<sup>+</sup>05, NRA<sup>+</sup>07, PLK09, el 69].

**Programs** [CD85, Dor60, Fer75, Jee58, KSW74, Kru84, NSS58, SK80, Urs75, ABF<sup>+</sup>10, Aus90, CJ91, SSW91, Sta89a, SZ91].

**Progress** [HCTS81,



JS81, ARS<sup>+17</sup>, GNF06, MAG<sup>+01</sup>, Sam67].  
**Progressive** [CBK<sup>+98</sup>]. **Project**  
 [Ana80, BKN10, CIE<sup>+03</sup>, RBB<sup>+02</sup>, SPP<sup>+05</sup>,  
 IBM13b, VRL10, WGF<sup>+06</sup>, Buc62, IBM08,  
 NNN<sup>+06</sup>]. **Projection** [DC82, DSRC98,  
 LC82, MHI98, Mid70b, SW98, DEG<sup>+01</sup>,  
 MAD<sup>+98</sup>, RDD<sup>+98</sup>, SST<sup>+98</sup>, SS00].  
**Projections** [WM81, O'C89]. **projects**  
 [CM19, LHS<sup>+17</sup>]. **Prolog** [Arb86, AKE<sup>+92</sup>].  
**promote** [SR19]. **Promoting** [LH03].  
**promotions** [SMSC14]. **Proof**  
 [CLW79, Dan60, Knu90, PV93, Gil60].  
**Proofreading** [TSNF88]. **Propagation**  
 [Bay69, Bei74, BT84, Car60, CS65b, GM63,  
 JH80, JHH<sup>+81</sup>, Mul67, Sat63, WS64,  
 DKR<sup>+90</sup>, TMW<sup>+17</sup>]. **Properties**  
 [Ahn66, Arm65, Blu79b, BJMO80,  
 BMWL80, BS64, CP86, Dav77, DH83,  
 Dim70, Flu67, FN95, Gun66a, Gun66b,  
 HK64, HM60, KP79, Key61a, KL80, Kle64,  
 Log70, Lud78, MU77, MY67a, MY68, Mil83,  
 NBRB70, OMAW60, PDLM67, RS59b,  
 SD85, Smi77, SG77, SSTF77, Wei65, Wol70,  
 Von70, AF68, AW98, BS72, FL89, How89,  
 KLS<sup>+05</sup>, Kri82, Mat70, Pau89, Pri73,  
 RDD<sup>+98</sup>, SHCV19, Spr71, SN98, SHCS05].  
**property** [Lew78a]. **Proposed**  
 [SB64, CJM96]. **propositional** [Fag77].  
**prospects** [Agn02, NHKI03, SKB<sup>+11</sup>].  
**protected** [Irv89]. **Protecting** [BBK<sup>+16</sup>].  
**protection** [BFH<sup>+93</sup>, FNS<sup>+17</sup>, GDA14].  
**protective** [LG88]. **Protein**  
 [KWN01, EHLSW01, RQBW08, TMS<sup>+01</sup>].  
**proteins** [FXL01]. **Protocol**  
 [GHW<sup>+20</sup>, WZ78, Wes78, AEH<sup>+04</sup>, SC20].  
**proton** [ZSZ96]. **Prototype**  
 [MHI98, FGP<sup>+85</sup>, KFB<sup>+97</sup>, MAD<sup>+98</sup>].  
**Provides** [Ost84]. **Providing** [FP83].  
**Proving** [Bir74]. **provisioning**  
 [GBJ<sup>+08</sup>, LSS14, SBB<sup>+09</sup>]. **proximal**  
 [MTF<sup>+95</sup>]. **Proximity**  
 [GSC80, Par80, PS80, BGK<sup>+82</sup>, GC93].  
**Proximity-Effect** [PS80]. **PS** [AHH<sup>+91</sup>].  
**PS/2** [AHH<sup>+91</sup>]. **pSeries**  
 [BKRF02, GBRJ05]. **Pseudo**  
 [Ano66j, Bla65, CCM65, Meg62, VSF65].  
**Pseudo-Noise**  
 [Ano66j, Bla65, CCM65, VSF65].  
**Pseudorandom** [RB90, RT99, AEG<sup>+02</sup>].  
**pseudorandom-number** [AEG<sup>+02</sup>].  
**Pseudoternary** [Cro70]. **PSG** [KH75]. **PSI**  
 [Bar75, FLKA84]. **psychiatry** [PCW<sup>+17</sup>].  
**psychology** [KLMV19]. **Pt**  
 [DVM81, Dem78, HBR85, HBR86]. **PTP**  
 [GHW<sup>+20</sup>]. **Public**  
 [Kov06, AWK20, BCC<sup>+16</sup>]. **publications**  
 [Ano90c, Ano92e, Ano92f, Ano92g, Ano93e,  
 Ano94j, Ano94k, Ano94l, Ano94r, Ano94s,  
 Ano94m, Ano94n, Ano94o, Ano94p, Ano94q,  
 Ano95i, Ano95g, Ano95h, Ano95j, Ano95k,  
 Ano96g, Ano96h, Ano96i, Ano96j, Ano96k,  
 Ano97f, Ano97g, Ano97h, Ano97i, Ano98g,  
 Ano98h, Ano98i, Ano98j, Ano98k, Ano99f,  
 Ano99g, Ano99h, Ano00i, Ano00f, Ano00g,  
 Ano00h, Ano01i, Ano01j, Ano01l, Ano01m,  
 Ano01k]. **publish** [SCW10].  
**publish/subscribe** [SCW10]. **Published**  
 [Ano57k, Ano57l, Ano57m, Ano57n, Ano58j,  
 Ano58k, Ano58l, Ano58m, Ano59f, Ano59g,  
 Ano59h, Ano59i, Ano60i, Ano60j, Ano60k,  
 Ano60l, Ano61f, Ano61g, Ano61h, Ano61i,  
 Ano62f, Ano62g, Ano62h, Ano63f, Ano63g,  
 Ano63h, Ano63i, Ano66s, Ano66t, Ano66u,  
 Ano66v, Ano66w, Ano66x, Ano67w, Ano67x,  
 Ano67y, Ano67z, Ano67v, Ano67-27]. **Pulse**  
 [Dod63, Gar64, LS64, PL83, SFH65, Sko58,  
 GFS71, Shi73]. **Pulse-Slimming** [Dod63].  
**Pulsed** [CCM65, Key70]. **Pulses** [Hem74].  
**pump** [BR09b]. **pump-scheduling**  
 [BR09b]. **Pumped**  
 [SCHL66, HA71, SLHM67]. **purchasing**  
 [YGR14]. **Pure** [MN67a, Sho04].  
**Pure-Tone** [MN67a]. **Purpose**  
 [Tay81, ATL<sup>+88</sup>, DAUS91, Gra69, LH84].  
**pursuit** [LQRS04]. **Pyrolytic** [Kle64].  
**Pythagorean** [Dub83, FS90, MM83].  
**Q** [BCK13, ABB<sup>+13</sup>, BSJ<sup>+13</sup>, CCD<sup>+13</sup>,

CP13, CKL<sup>+13</sup>, CHT<sup>+13</sup>, EO13, EWS<sup>+13</sup>, MP88a, MP88b, OWG<sup>+13</sup>, PMLA88, PM88, RIB<sup>+13</sup>, SCG<sup>+13</sup>, IBM13a, IBM13c]. **Q-Coder** [MP88a, MP88b, PM88, PMLA88]. **Qbox** [Gyg08]. **QCD** [BCK13]. **QCDOC** [BCC<sup>+05</sup>]. **QCDSP** [BCC<sup>+05</sup>]. **QR** [EG00]. **QS22** [VLB<sup>+09</sup>]. **QSAR** [PPG<sup>+01</sup>]. **quadratic** [Ger73]. **quadrature** [MR72]. **quadratures** [MY65]. **quadrics** [O'C89]. **Quality** [Cle83, CEY84, MJS70, MCH<sup>+82</sup>, BTWY92, CT06, CPCC18, ESM16, HBC<sup>+99</sup>, OEN<sup>+16</sup>, SHC<sup>+72</sup>, Sta97]. **quantification** [Gil60, MWEJ05, Mon82b]. **Quantifying** [NQ20, QGT13]. **Quantitative** [BWK20, KM74, BNN<sup>+09</sup>, MS07, PWFB91]. **Quantities** [El 74, Agi74]. **Quantization** [GS70, LBT99]. **Quantum** [Azb88, CGR88, FS88, Gar88, Gia66, GMW80, Heb64, HHH04, HMK01, SB64, Whe88, WS64, WA79, ALH95, BHM04, CRAG18, Gou89, Joz04, Pri66, Sho04, Smo04, VBC<sup>+08</sup>]. **Quarter** [HCTS81, JS81, HBP<sup>+81</sup>]. **quartz** [KM93, Rat68]. **Quasi** [BEH<sup>+89</sup>, EHK<sup>+89</sup>, SBG<sup>+71</sup>]. **Quasi-elastic** [BEH<sup>+89</sup>, EHK<sup>+89</sup>]. **quasi-steady-state** [SBG<sup>+71</sup>]. **Quasidynamic** [Cha62]. **Quasimaximum** [Sta73]. **quasiperiodic** [HM89]. **qubits** [Woo04]. **Queens** [SS87b]. **Quenched** [LF64]. **Quenching** [Boe69]. **Query** [ADST78a, SFT78, ADST78b, BYY98, NMTP14]. **querying** [EWBR09]. **Question** [LPM<sup>+12</sup>, Pla76, BCD<sup>+17</sup>, KPBP<sup>+12</sup>, TOKN18]. **Question-Answering** [Pla76, BCD<sup>+17</sup>]. **Questions** [Ver88, Fre04, PBCC12]. **Queue** [Cal81, Cha74, GS75, Low74, BZ06a, Sta75]. **Queueing** [CHW75a, CHW75b, CMS85, HWC75, Lam77b, LS75b, Sau81, Sch63, BGK62, SMS80]. **Queues** [Cha75b, SS82]. **Queueing** [RK74, RK75, BK61, Lam77a, MHI01, Mat03, Moo72]. **Quickly** [BD96]. **Qx** [SM98]. **Qx-coder** [SM98].

**R** [HRWZ87]. **R-fields** [HRWZ87]. **Radar** [van77, MMJ69]. **Radially** [BBT83, PH81]. **Radiant** [NGMW57]. **Radiant-Energy** [NGMW57]. **Radiation** [HD69, Hir77, Dav69, TMF<sup>+08</sup>]. **Radiative** [HC78]. **radical** [MD12b]. **Radii** [Hut74]. **Radio** [CCM65, SH57a, CS03]. **Radio-Interference** [SH57a]. **Radioactive** [VGC79]. **Radioisotopes** [Spr61]. **Radiotracer** [BC60c]. **RAID** [HDBR08]. **railroad** [VJA07]. **railroads** [RC09]. **raindrop** [AKKJ72]. **raise** [YCJ<sup>+17</sup>]. **RAM** [NHKI03]. **Raman** [RSSS82]. **RAMs** [FT80]. **Random** [DG84, EL83, Erd88, Her65, LH57, LST80, ND57, Pet57, SM71, WT77, CTT91, Don74, DMR<sup>+81</sup>, FR01, LBB<sup>+13</sup>, MDB<sup>+02</sup>, ND00, RBB<sup>+08</sup>, WLEF89, LH00, ND00]. **Random-Access** [LH57, ND57, Pet57, CTT91, FR01, MDB<sup>+02</sup>, ND00, ND00, LH00]. **Random-Pattern** [EL83]. **Random-walk** [SM71]. **randomization** [RS94]. **Randomized** [KR87]. **randomness** [Pic91]. **Range** [Kuz70, MPD86, GYK99, Gra69, Jaq03, KDG15, MY65]. **ranking** [GLK<sup>+12</sup>]. **Ranks** [FR60]. **Rapid** [ATW06, BMF<sup>+16</sup>, BJ67, Hua79, KKS<sup>+73</sup>, MS67, GON<sup>+06</sup>, Gra71, MC87]. **rapid-data-rate** [Gra71]. **Rapid-response** [BMF<sup>+16</sup>]. **Rapid-turnaround** [ATW06]. **Rapidly** [Jam89]. **RAS** [AFM<sup>+02</sup>, CAD<sup>+09</sup>, Del08, FCS<sup>+04</sup>, MAF<sup>+99</sup>]. **Raster** [MLGD84]. **Rate** [KS79, KO65b, GRH<sup>+08</sup>, Gra71, Irv91, MRG99, RHC73, Sri96, TLM83, WRG99, ZMM<sup>+96</sup>]. **rates** [Dat93, MHI01]. **Rating** [SR19, VTC09]. **ratio** [Thi88]. **rational** [Tue68]. **Rationale** [BJW72, MS05]. **Ratios** [Che72, Gec74, SS76]. **Raw** [Kin61, GAB<sup>+08</sup>]. **Ray** [COC61, HMR82, Hua79, War93, BM93, CNH73, Col69b, HS71, KWT<sup>+11</sup>, ORT<sup>+96</sup>, RF78, Seg68, Spi93, Sri96, SN98, Tan96,

WNB91, Zie98, Arc93, GHP<sup>+</sup>93, GC93, JS00, LL93, SF93, See93, SMVK90, SRO93, SS93, SA00, WSK<sup>+</sup>93, Wil93]. **ray-tracing** [WNB91]. **Rayleigh** [Poh79]. **Rays** [ZS96, Zie96]. **Re** [MJS70, Kri82]. **Re-Emission** [MJS70]. **re-order** [Kri82]. **reach** [CPvR00]. **Reaction** [Pan78, MMV<sup>+</sup>01]. **Reactions** [BLR84, HBR85, Lun79, HBR86, SLZL18]. **Reactive** [AS78, Kuo92, JL90, RKL88b]. **reactivities** [MMV<sup>+</sup>01]. **Read** [Cli90, FMP61, Has66, JT66, KJMS67, MPST66, Sie63, TK64, ILH03, TFL<sup>+</sup>98]. **Read-back** [Sie63]. **Read-Only** [Has66, TK64]. **read/write** [ILH03]. **Readability** [DRSM15]. **Readback** [TT75]. **Reader** [CK63, AAH68, Bar68, Hen68]. **Reading** [Ost84, Wal58]. **Reading/Writing** [Ost84]. **Readout** [ABPS66, Bro72]. **reads** [LPM<sup>+</sup>12]. **Real** [Bev69, BFRT13, DR82, HLS81, Her75, Jam81, LPMDG14, OO81, PSD<sup>+</sup>17, Soh76, SSB<sup>+</sup>12, ASR07, BISN<sup>+</sup>12, CGM<sup>+</sup>15b, EGH<sup>+</sup>86, HKA<sup>+</sup>13, KZP03, KCH<sup>+</sup>09, NMH<sup>+</sup>07, ODL<sup>+</sup>09, Osb93]. **Real-Time** [DR82, HLS81, Her75, Jam81, OO81, Soh76, Bev69, BFRT13, LPMDG14, PSD<sup>+</sup>17, SSB<sup>+</sup>12, ASR07, BISN<sup>+</sup>12, CGM<sup>+</sup>15b, EGH<sup>+</sup>86, HKA<sup>+</sup>13, KZP03, KCH<sup>+</sup>09, NMH<sup>+</sup>07, ODL<sup>+</sup>09, Osb93]. **realization** [Bei92, Gil60]. **realm** [OYHSB14]. **reasoning** [Di 88, MDH<sup>+</sup>12, NS92]. **Reassembly** [Str81]. **Receiver** [KT73, VSF65, RFB<sup>+</sup>03]. **Receiving** [Raa76]. **Recently** [Ano62f, Ano62g, Ano62h, Ano63f, Ano63g, Ano63h, Ano63i, Ano66s, Ano66t, Ano66u, Ano66v, Ano66w, Ano66x, Ano67n, Ano67o, Ano67p, Ano67q, Ano67r, Ano67s, Ano67w, Ano67x, Ano67y, Ano67z, Ano67v, Ano67-27, Ano94c, Ano94d, Ano94e, Ano94f, Ano94g, Ano95d, Ano95e, Ano95f]. **Recessed** [OG80]. **recipe** [DL02]. **Recirculating** [Sch63]. **Recognition** [AAH68, Bon62, DFM<sup>+</sup>88, Dav58, Dic60, GHKO57, KT66, Kur87, MD65, Mer88, WR83, ACC<sup>+</sup>15, BHP17, BHW<sup>+</sup>17, CNP<sup>+</sup>17, DDMS92, GMNE63, HM71, KL63, LJV<sup>+</sup>07, MC87, SP17, Tap82, YAH<sup>+</sup>96, YG81]. **recombinant** [NBF<sup>+</sup>00]. **recommendation** [HRZ14]. **Recommendations** [WZ78]. **recommender** [VVHL16]. **Reconfigurable** [Elm84, KZP03, MN97, VRA<sup>+</sup>09]. **Reconfiguration** [CHY92]. **Reconstruction** [PL81, Sta67, LHJ69]. **recorded** [BD74]. **Recording** [Blu79a, CM74, FK62, Gre79, Hoa58, Hoa61, Ku63, KC66b, Lor70, Pat75, Pol78, Sch85, Sea58, Sie63, SM66, SW74, TT75, Tan74, ABR71, AR98, ABB<sup>+</sup>08, BP88, BE03, CBH<sup>+</sup>05, Hoa00, How89, Hsi99, KT70, Kob71, NDM<sup>+</sup>04, SHSY90, SHSY00, TFL<sup>+</sup>98]. **recordings** [WSCK17]. **Records** [CLW80, GA68, Sha12]. **Recovery** [DMP59, Lew80, Pat80, SLC09, SLP<sup>+</sup>20, AAF<sup>+</sup>09, BGS13, GBJ<sup>+</sup>08, Gri69, OHK<sup>+</sup>07, PWW13]. **Rectangular** [Coo82, MS60b, PH74, WWMS79, Jon72]. **Rectification** [MG62]. **Recurrence** [Kog74]. **recurrent** [SP17]. **Recursion** [Gus97, EG00, GJ00]. **Recursive** [Goz94, Her72, HWC75, Pis74, Ris72, Str68]. **Redefining** [RMM20]. **redistribution** [TKK<sup>+</sup>92]. **Redox** [FLB<sup>+</sup>19]. **reduce** [CFS<sup>+</sup>19]. **Reduced** [BBH<sup>+</sup>95, Kri82]. **Reducing** [CHMW07, WF87, GB93]. **Reduction** [ADH70, AdH00b, Bla63, CM80, DG84, DGB78, FC79, GT80, Kob70, She59a, TLR85, Vil82, BZ06a, Bev69, FDS<sup>+</sup>13, GWB<sup>+</sup>17, Gre59, Hei80, LL99, TW69]. **Redundancy** [BR82, Fle58, LV62, Skl76, SMD80, BBI94, Gla97, Irv89, Irv01]. **Redundant** [FT80, HBB<sup>+</sup>07, MLMP<sup>+</sup>12, MWW<sup>+</sup>07]. **Reed** [BP75, Bla84a, Bla84b]. **Reengineering** [GE02, GW18]. **reentry** [MMJ69]. **Reference** [Eas75, Eas78, VDG19, KGT88].

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WWMS79, DKA<sup>+05</sup>, JAC<sup>+19</sup>]. **Resistivity** [KDBT60, SC88]. **Resistor** [CP63, Ove70, Kah71, KM68, RHC73]. **Resistor-Coupled** [CP63]. **Resistors** [KL80]. **Resists** [MW80a, BLDM97, HHSW01, Ito97, Ito00, MAG<sup>+01</sup>]. **Resolution** [BJS80, Bro88, DC82, Gar86, Hoa58, JWL82, KKK61, Kra81, LY83, SW98, Sie63, Bat00, CHdTG92, LPPT86, LL98, LMW<sup>+01</sup>, MBB<sup>+01</sup>, PGN88, SST<sup>+98</sup>, ST17, TPC<sup>+13</sup>, UBK<sup>+88</sup>]. **Resolved** [BLLS79]. **Resonance** [DV64, SOC59, SG64, Tit63, Meh89, Var89]. **Resonant** [Fan64, Pre66, Roe66]. **resonator** [KM93]. **Resource** [ADG<sup>+05</sup>, FBG12, MBA<sup>+12</sup>, RKM02, Sau81, YSH12, BM96, CCFSZ12, HS11, KdAC<sup>+15</sup>, MC09, MN97, SGK04]. **resourced** [GHH<sup>+17</sup>]. **Resources** [KW76, MWL<sup>+14</sup>]. **Respect** [AS87]. **responder** [SS20]. **Response** [ALL77, Ano20d, Ber64, Cha75a, ELZ79, Ree69, Rei66, RR69, SY73, SWD74, vS57, BMF<sup>+16</sup>, HS11, JC00, KT70, SS20, TYM<sup>+14</sup>]. **responses** [BS06]. **responsibilities** [DYK10]. **REST** [Oha10]. **Restricted** [Fra79, Fra80a]. **Restructuring** [LSH76, Hei94]. **result** [Lam77a]. **Results** [FC63, RS67, BS71b, Fla91, FL89, KN91b, SPP<sup>+05</sup>]. **retail** [MHR<sup>+15</sup>, RM09]. **retention** [NCM<sup>+01</sup>]. **Rethinking** [ABD<sup>+14</sup>]. **Retrieval** [JM64, SY73, CBK<sup>+98</sup>, PSD<sup>+17</sup>]. **retrospective** [WCT06]. **reuse** [BSRM09, WMK<sup>+07</sup>]. **revenue** [AYA14]. **Reverberation** [MN67a]. **Reversal** [CDH64, DP59, Hop61, Mid62]. **reverse** [PLK09]. **reverse-acceleration** [PLK09]. **Reversibility** [Ben73, Zul01]. **Reversible** [Ben88, Ben00]. **Review** [Bar62, BRB<sup>+01</sup>, CH84, MW67, NHKI03, OO81, PC85, RR83, SC81, Bag94, BWK20, DM01, Duk90, FL89, Lax67, Sta89b, van89]. **revision** [BBSW97]. **Revisited** [SS88, Shu94]. **Rework** [Doo83]. **Rewritable** [AFF96]. **Reynolds** [Mic59]. **rf** [DAC<sup>+03</sup>, HNS<sup>+03</sup>, KM00, GMP90, KP79, KM70, Log70, LMD70, MU77, Maz70, Pen69, Pen79, PDLM67, SK69, SJ70]. **RF-sputtered** [MU77]. **rf/analog** [HNS<sup>+03</sup>]. **RFID** [RM09]. **Rheology** [Was77, FGMPK05]. **rhodamine** [HA71]. **Rib** [Ham78]. **Rib-Supported** [Ham78]. **Ribbon** [ABB<sup>+85</sup>, Bay78, BCD<sup>+85</sup>, CS85, Hel79, LM85, PC85, SD85, Twa85]. **Rich** [KEJ87]. **Righi** [Pri58a]. **Righi-Leduc** [Pri58a]. **Ring** [BS85, Fan61, TK64, HHA93, OCB<sup>+90</sup>, WSK<sup>+93</sup>]. **ring-disk** [HHA93]. **Rings** [CGR88, Str83]. **Rio** [TPC<sup>+13</sup>]. **RISC** [BGM90, FAJ<sup>+94</sup>, Gro90, HM90, Mar90, MHR90, OG90, RB90, War90, Aus90, BCJ<sup>+96</sup>, BS95, CMR<sup>+90</sup>, CM90, CM00, WD94]. **Rise** [Lin67]. **Risk** [GSAB93, LSS14, RM10, AWK20, BKN10, BMF<sup>+16</sup>, CKE<sup>+10</sup>, DB20, DJK14, EPP10, FM10, HS14, HE10, KOP14, KEKP20, MR14, MS07, RAR<sup>+14</sup>, SBD<sup>+10</sup>, Yas07, vKCD<sup>+10</sup>]. **Risk-based** [LSS14, MS07]. **risk-metric** [FM10]. **Risk-pooling** [GSAB93]. **risks** [BC00, ITS<sup>+15</sup>, Jen10, SSK<sup>+16</sup>, SP14]. **Ritz** [BS72]. **river** [EWBR09, KCH<sup>+09</sup>]. **RKKY** [Kuz70]. **RKKY-Type** [Kuz70]. **RNA** [BD62]. **Roadrunner** [KGBB09]. **roads** [BCSE89]. **Robin** [Tak87, WC75]. **robotics** [Kis96]. **robots** [Mey81]. **Robust** [WLB<sup>+15</sup>, ATW<sup>+08</sup>, NCM<sup>+01</sup>]. **rock** [Mon82b]. **Role** [Ast58, AAC<sup>+06</sup>, BJ06a, Far98, GMX14, Tur69, Van97]. **roles** [DYK10, KLRS96]. **Room** [BN63, JWSP06]. **Room-Temperature** [BN63, JWSP06]. **rooms** [Fro71]. **Root** [Kog59, Mir69, Dan66, Pon17]. **root-cause** [Pon17]. **root-locus** [Dan66]. **Roots** [Che72, Jam89, MM83]. **Rosetta** [RQBW08]. **rotated** [Rat68]. **Rotating** [BT78, FT77, Gre79, DR93, HHA93]. **Rotating-Head** [FT77]. **Rotating-Head/Tape** [FT77]. **rotation**

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 [RP66]. **RP3** [BCR91, CJ91, KN91a]. **RSP**  
 [MP82]. **Ruby** [SLLP64]. **Rule**  
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- S** [ABC<sup>+</sup>99b, ABB<sup>+</sup>99, CP99, DSM<sup>+</sup>99,  
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 SWC<sup>+</sup>97, SG99, WMH<sup>+</sup>97, GP81, CS99,  
 DGL<sup>+</sup>97, ECD<sup>+</sup>99, Gre97, HBL<sup>+</sup>99, JL99,  
 KBM<sup>+</sup>99, KL97, Mau97, RHM<sup>+</sup>99, SSM97,  
 SK99, SCC<sup>+</sup>97, SMK<sup>+</sup>99, TMB<sup>+</sup>99, Van97,  
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 RKW99, SWC<sup>+</sup>97, SG99, WMH<sup>+</sup>97, CS99,  
 DGL<sup>+</sup>97, ECD<sup>+</sup>99, Gre97, HBL<sup>+</sup>99, JL99,  
 KBM<sup>+</sup>99, KL97, Mau97, RHM<sup>+</sup>99, SSM97,  
 SK99, SCC<sup>+</sup>97, SMK<sup>+</sup>99, TMB<sup>+</sup>99, Van97,  
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**Samarium** [SS61]. **same** [BWB<sup>+</sup>20].  
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**sampling** [Sch96b, Wie90]. **Samuel**  
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 [ESS<sup>+</sup>20]. **satisfying** [RMM03]. **Saturation**  
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 RBWH93]. **scalability**  
 [AAB<sup>+</sup>10, BZ06a, WYTO04]. **Scalable**  
 [AHK<sup>+</sup>18, EFR<sup>+</sup>05, HJW<sup>+</sup>16, KHZ<sup>+</sup>08,  
 SJW<sup>+</sup>16, SXW<sup>+</sup>13, SBB<sup>+</sup>09, SHL<sup>+</sup>20,  
 WPL<sup>+</sup>12, ACFS16, CGM<sup>+</sup>15b, Gyg08,  
 Has98, HSS<sup>+</sup>10, IS20, KMM<sup>+</sup>16, NMH<sup>+</sup>07,  
 RBB<sup>+</sup>08, VBE94]. **Scalar**  
 [ACG<sup>+</sup>86, ACG<sup>+</sup>87, Gsc16]. **Scale**  
 [BSS82, BBH<sup>+</sup>67, CD85, CP77, Mic78,  
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 BKF<sup>+</sup>16, DLJ<sup>+</sup>08, Duk93, Dür94, EMM<sup>+</sup>18,  
 ETWO08, FGG<sup>+</sup>13, GGK<sup>+</sup>13, HdTR06,  
 HBT<sup>+</sup>16, KJS09, LSW13, NMV<sup>+</sup>09,  
 RBB<sup>+</sup>02, RBB<sup>+</sup>11, SCC<sup>+</sup>15, Sof13, TSH92,  
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**Scaled-Up** [Lev77]. **scales** [HE10]. **Scaling**  
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 MDB<sup>+</sup>02, Now02, SWC<sup>+</sup>95, TMF<sup>+</sup>95,  
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 [McA83]. **Scanner**  
 [Bra80, Cla79, DSW82, Kan78]. **Scanning**  
 [AMGC86, APS86, Ano86c, BMC86, BR00,  
 CW86, DHTW86, DV74, DPR86, FF86,  
 Fin86, Gar86, GH86, Gom86, HBR85, KJ86,  
 KWB88, MHK<sup>+</sup>11, Pet80, Poh86, SB86,  
 WKB<sup>+</sup>86, vv86b, All00, BHRS72, BNT86,  
 DAB<sup>+</sup>97, Dür94, Far82, HBR86, KKT<sup>+</sup>95,  
 Poh95, Sto91]. **Scatterers**  
 [Lan88, Lan57, Lan96, Lan00b]. **Scattering**  
 [Dav69, FT64, Hun59, Kra81, Pen79, Poh79,  
 RSSS82, Spe69, Tie61, BEH<sup>+</sup>89, CJ78a,  
 Cop00a, EHK<sup>+</sup>89, Haa70, JS00]. **scenario**  
 [NML<sup>+</sup>20]. **scenarios** [LPA<sup>+</sup>15].  
**SCEPTRE** [Sed67]. **scheduled** [MVI<sup>+</sup>07].

**Schedules** [FL75, LF77]. **Scheduling** [AS74, FL76, GAC85, Her75, LS76a, Nor58, Tak87, Wit85, WC75, BCE<sup>+</sup>07, Bla94, BR09b, CSW73, FW83, FN95, GR90, HS91, LMHM96, VJA07, War90]. **Schema** [CA84]. **Scheme** [Gra80, Hop59, Lom75, Pat80, PRY65, RS79, AC84, BSSZ76, BHM04, ESA02, Mir72, TMS<sup>+</sup>01, Vor71]. **Schemes** [CA84, Kob70, RP70, Yas85, Yas87, AW82, EHLSW01]. **Scholars** [Gar00]. **Schottky** [AA71, DS70, Mid70a, Wol70]. **Schottky-Barrier** [DS70, Mid70a, Wol70]. **Schweitzer** [Sit87]. **Science** [CCD<sup>+</sup>13, Che06, Che08, DHTW86, Gom87, Goo58, Hor93, KN81, Lip92a, Mit94, ODK<sup>+</sup>99, PMS<sup>+</sup>17, RB92, Sor79, Sor00]. **science-1960** [Sor79]. **Sciences** [Kov06, Opr03, Wie58, WH94, CDS<sup>+</sup>19, McC69, Pul03]. **Scientific** [Ano58f, Ast58, CD85, GS87, dG58, ABB<sup>+</sup>13, Dun57a, EWS<sup>+</sup>13, KFH<sup>+</sup>06, KSA<sup>+</sup>04, SPP<sup>+</sup>05]. **scientists** [GR92]. **Scintillation** [Spr63]. **SCISM** [VBE94]. **scopes** [SLC09]. **Scorecards** [HS14]. **scoring** [HE10, WKF<sup>+</sup>12]. **scrambler** [BBI94]. **screening** [YCB05]. **script** [Tap82]. **SCSI** [BBF<sup>+</sup>04]. **Scylla** [HHH04]. **SDH** [Cla03]. **SDH/SONET** [Cla03]. **SDRAM** [VLT<sup>+</sup>12]. **Se** [FA70, Vur70, Kus70]. **Seamless** [MBK<sup>+</sup>15]. **seamlessly** [AAM<sup>+</sup>07]. **Search** [CCFB<sup>+</sup>12, GS74, SS87b, CBK<sup>+</sup>98, CHG04, DMG<sup>+</sup>17, GYK99, Rai69, ST17, SS86, WML<sup>+</sup>16]. **searching** [Luh57]. **SEC** [Hsi70]. **SEC-DED** [Hsi70]. **Second** [Bog79, SM62, Tri58, HPW<sup>+</sup>02, WBH<sup>+</sup>04]. **second-level** [HPW<sup>+</sup>02, WBH<sup>+</sup>04]. **Second-Order** [SM62, Tri58]. **secondary** [CHL<sup>+</sup>11, DP68, Irv01, Spo94]. **Section** [Ano67u, Car81, MMJ69]. **sectional** [TTI98]. **sections** [HAMC<sup>+</sup>04, Les71]. **Sector** [Kov06]. **Secure** [BBGE<sup>+</sup>14, BBK<sup>+</sup>16, BBB<sup>+</sup>20, ACD<sup>+</sup>15, BHH19, KKT09, KMM<sup>+</sup>16, WMK20, RBL<sup>+</sup>18]. **secured** [BMM<sup>+</sup>20, HSS<sup>+</sup>10]. **securely** [BC18]. **Securing** [DHC20, KAD<sup>+</sup>16]. **Security** [AAB<sup>+</sup>16, BCG<sup>+</sup>09, BGM<sup>+</sup>16, HT16, HG14, Rao16, RCP<sup>+</sup>16, Viv14, AAJ14, And10, BKF<sup>+</sup>16, BCH<sup>+</sup>16, BBC<sup>+</sup>09, FKOW16, HLZ<sup>+</sup>09, KKB<sup>+</sup>09a, KMO<sup>+</sup>14, OYHSB14, PP09, SHL07, SSK<sup>+</sup>16, DHC20]. **Segment** [Ber76a, WW75, Wie76, Bou97]. **Segmentation** [HM71, BSRG17, Dan82]. **Segments** [Lew83]. **Seismic** [Gaz78, GRSW86, PLS20]. **selected** [DP13, How89]. **Selection** [BHR77, HHM66, Sea58, TLR85, Sar97, WML<sup>+</sup>16]. **Selective** [GBBM90, RS79, GSAP17]. **Selectric** [Wil85]. **Self** [EL83, FE75, GRT74, HBL<sup>+</sup>99, HBL<sup>+</sup>02, HO75b, OCB<sup>+</sup>90, RWC80, Sea57, SWD74, TDM<sup>+</sup>87, TH64, Whe88, BRB<sup>+</sup>07, HSL<sup>+</sup>10, HMP90, KS90, RB90, Sar91b, Shi73, Tag09, Vor71, DBC<sup>+</sup>06]. **Self-Acting** [SWD74]. **Self-Adapting** [DBC<sup>+</sup>06]. **Self-Aligned** [TDM<sup>+</sup>87]. **self-approximate-optimal** [HSL<sup>+</sup>10]. **Self-Clocking** [HO75b, Sea57]. **Self-Directional** [GRT74]. **self-focusing** [Shi73]. **Self-Improving** [FE75]. **self-isolation** [Vor71]. **Self-Magnetic** [TH64]. **Self-Registering** [RWC80]. **self-service** [Tag09]. **Self-Synthesized** [Whe88]. **Self-Test** [EL83, HMP90, KS90, RB90, Sar91b]. **Self-testing** [OCB<sup>+</sup>90]. **Self-timed** [HBL<sup>+</sup>99, HBL<sup>+</sup>02]. **selfboot** [WMK20]. **seller** [Sav69]. **Semantic** [SW86, Alf89, SCC<sup>+</sup>15, WN92]. **Semantics** [FLDC86, Luc81, AR87, SS87a]. **SEMD** [ZHP<sup>+</sup>18]. **Semi** [OG80]. **Semi-Recessed** [OG80]. **Semiconducting** [Pea69]. **Semiconduction** [Swa57]. **Semiconductor** [Aic84, Att92, BHV85, BKP82, BCGS81, CDD82, CH84, FLCB85, FF86, HMOS81, HMO81, Han57, Har81, HCBA82, Hoh78, Hor62, KH88, KMCY82, LB85, Mar64b, PH79, RTL69, RHM63, RWL81, Yu61, Aas70, AHW<sup>+</sup>99, BNT86, BRB<sup>+</sup>07,

BCGS00, CNS<sup>+99</sup>, KM68, LFF90, LLF<sup>+92</sup>, LRMT95, LD72, Mar79, MCH<sup>+82</sup>, ORT<sup>+96</sup>, Pri73, Ros99, Tan96, TMF<sup>+08</sup>, Tib93, TWF90, Vin81, Vur70, WL73].  
**semiconductor-related** [WL73].  
**Semiconductors**  
 [Adl70, Bar69, CFG64, ET70, Fri69, Gun64, Gun69, HM60, KN81, Leh64, Met70, Pri58b, SH69, THv70, Whi70, Zar57, Ano70b, BZ06b, Kit89, Koh98, Lew73, TWRW89].  
**Semiempirical** [ZHP<sup>+18</sup>]. **semilinear** [Ger73]. **Semimetals** [CFG64, MM64].  
**Semipermanent** [FMP61]. **SEMM** [MS96, Tan08]. **SEMM-2** [Tan08]. **Senior** [Don00, Pic18, San12]. **Sense** [Gra80].  
**Sensed** [HF78, Pri94]. **Senses** [Bla88].  
**Sensing**  
 [Dav79, THL85, RBB<sup>+11</sup>, SKC<sup>+10</sup>].  
**sensitive** [BCC<sup>+16</sup>, MC87, VNT16].  
**Sensitivities** [Sta83]. **Sensitivity**  
 [Bud67, GOJN77, Ho75a, VCP80, JC00, PTRC16, Sch71]. **Sensitometry** [SSL73].  
**Sensor**  
 [Ber76b, SvNH13, Vin81, WP11, RBB<sup>+11</sup>].  
**Sensors** [KW76, Ibe03]. **sensory** [Mey81].  
**sentence** [AKB<sup>+17</sup>, MMUS88]. **sentences**  
 [VPD88]. **separated** [FW67]. **separating**  
 [Bar82]. **Separation** [FL74, Pli66, TC63].  
**SEQUEL** [CAE<sup>+76</sup>]. **Sequence** [Eas86, Fra70, Bir01, FRPG01, Goz94, Mas97].  
**Sequence-State** [Fra70]. **Sequences**  
 [BBD63, Mil83, LS73, Ris72]. **Sequential**  
 [But88a, Cha75b, Eic65, Jel69, LS77, WT77].  
**Serial** [KSW74, Zab79, EG00, ESW<sup>+95</sup>, FMP<sup>+03</sup>, JMP96]. **Series**  
 [But88a, LS76b, BFRT13, OOL<sup>+12</sup>, Yet89].  
**Server** [CP99, Cha75b, Cho75, DSM<sup>+99</sup>, Des02, DGL<sup>+97</sup>, ECD<sup>+99</sup>, RHM<sup>+99</sup>, SC75, SSM97, SCC<sup>+97</sup>, SWC<sup>+97</sup>, SG99, VLT<sup>+12</sup>, WMH<sup>+97</sup>, BIK<sup>+05</sup>, CRM02, GWB<sup>+17</sup>, Gre97, GW18, IFB<sup>+11</sup>, Kum98, LRV<sup>+09</sup>, NCM<sup>+01</sup>, SA98, SN02, SKS<sup>+11</sup>, SBC<sup>+12</sup>, WHK<sup>+09</sup>, WNW<sup>+10</sup>, ABB<sup>+91</sup>, Kis03].  
**Server-class** [VLT<sup>+12</sup>]. **Servers**  
 [RGP<sup>+97</sup>, AAM<sup>+07</sup>, BBK<sup>+16</sup>, BEKK00, FKK<sup>+03</sup>, KPT<sup>+02</sup>, KEL<sup>+00</sup>, Moo72, NMH<sup>+07</sup>, PGS<sup>+98</sup>, ABC<sup>+99b</sup>]. **Service**  
 [Ada84, DJL<sup>+16</sup>, RBL<sup>+18</sup>, SBD<sup>+10</sup>, Tag09, ABD<sup>+16</sup>, BNN<sup>+09</sup>, BNSG09, BGK62, EBH<sup>+16</sup>, HRF<sup>+17</sup>, HRS07, Irv91, JQB<sup>+09</sup>, KJS09, KL97, KSB07, LRV<sup>+09</sup>, MBT19, MWL<sup>+14</sup>, SS82, SIKdL16, VWE02, VMS<sup>+14</sup>, BBD<sup>+17</sup>]. **Serviceability**  
 [CMPR64, HCTS81, CAK<sup>+15</sup>, FCS<sup>+04</sup>].  
**Services** [BR17, GRB<sup>+16</sup>, Hau96, Pul07, Tag09, Tak87, WC75, AAC<sup>+05</sup>, ABH<sup>+19</sup>, BB09, DMG<sup>+17</sup>, Elg11, GLM<sup>+96</sup>, HSS<sup>+10</sup>, ISV16, KFH<sup>+06</sup>, KMM<sup>+16</sup>, KAA<sup>+18</sup>, LRV<sup>+09</sup>, RP14, RWB<sup>+10</sup>, RDL19, ST17, TOKN18, VSS<sup>+09</sup>, VRA<sup>+09</sup>, WAB<sup>+09</sup>, Yar12, CJJ<sup>+16</sup>, ODA<sup>+08</sup>, UDP<sup>+12</sup>]. **Servo**  
 [CD78, Hoa61, Osw74, Hoa00, Ono93].  
**Servo-Access** [Hoa61, Hoa00]. **Set** [Bry75, CCM65, Gha75a, Ser82, VBE94, Mic72].  
**Sets** [Eas86, DH03]. **Several**  
 [BMS80, Cas60]. **severe** [TPC<sup>+13</sup>].  
**sexiphenyl** [HKvG<sup>+11</sup>]. **Shallow**  
 [FPS66, PF66, TDM<sup>+87</sup>, Tit63]. **Shannon**  
 [Koc59]. **Shape** [WTS<sup>+11</sup>, GSAP17].  
**shape-selective** [GSAP17]. **shaped** [AG72].  
**shapers** [BH95]. **shapes** [Oht95]. **Shaping**  
 [EKR87]. **Shared**  
 [Cve87a, GHW70, GA84, MBJ<sup>+97</sup>, SSL73, Ano71, AUW<sup>+09</sup>, Lat73, Rei69].  
**Shared-cache** [MBJ<sup>+97</sup>].  
**Shared-Memory** [Cve87a]. **Sharing**  
 [Bar73, Chi60a, Con58, Con60, Mar59, SAB<sup>+07</sup>, Cre81, FN95, FL69, Gra71]. **Shark**  
 [Has98]. **Shear** [CS65a]. **Sheaths** [Pen79].  
**Sheet** [Fie65]. **Shells** [BGT74]. **shelves**  
 [MHR<sup>+15</sup>]. **Shenzhen** [CXZ<sup>+17</sup>].  
**Shewhart** [Yas85]. **Shielded** [CPL<sup>+74</sup>].  
**Shielding** [Spr63, Yan71]. **Shift**  
 [BTW62, CT76, Fuj92, Gus76a, Gus76b].  
**Shift-Register** [CT76, Gus76a, Gus76b].  
**Shifts** [SAL63, TY64, ZZ69]. **Shock**  
 [BS69, Lan60, FSG<sup>+73</sup>, PL73]. **shocks**  
 [MM75b]. **shooting** [CP72]. **shop** [RP14].



**Short** [DY89, GAC85, Jam89, SL67, GWRS90, Shi73, SSB<sup>+</sup>12].  
**Short-coherence-length** [DY89].  
**Short-Term** [GAC85, SSB<sup>+</sup>12]. **Shortcut** [HT69]. **shortest** [HW72, HT69].  
**Shubnikov** [Bro66]. **Shutter** [COC61].  
**Shuttle** [Skl76]. **Si** [GDR70, CFH64, Jon65, KG80, KEJ87, KACS95, LFC95, Mey90, Mey00a, Pan78, Pes71, PRY65, RF78, SSSF11, Tu90, WTS<sup>+</sup>11]. **Si-Fe** [Pes71].  
**Si-Rich** [KEJ87]. **Si-SiO** [KG80]. **Si/SiGe** [LFC95]. **SiC** [SHTP11]. **Side** [Sha58b, MY65]. **Sideband** [CDH64].  
**Sierra** [Ano20f, BBE<sup>+</sup>20, DRB<sup>+</sup>20, Lie20, SGS<sup>+</sup>20, TTM<sup>+</sup>20]. **SiGe** [DAC<sup>+</sup>03, FMP<sup>+</sup>03, HNS<sup>+</sup>03, JGD<sup>+</sup>08, LFC95].  
**Sigma** [OB09]. **Signal** [Ber85, Coo82, DR82, GCPVG85, HW87, JH80, PSH80, Shi85, TT75, Tsu80, UMK<sup>+</sup>85, Bra68, Cha88, DKR<sup>+</sup>90, Mey00b, MP82, MZS<sup>+</sup>03, PAZ72, SPR<sup>+</sup>95, VWPB90].  
**signal-processing** [SPR<sup>+</sup>95]. **Signals** [Cha67, KLS66, Mul67, VSF65, Boh73, CN71, Hei90]. **Signature** [HL77, Lew80, Lew83, DWW90].  
**significance** [TR77]. **Significant** [OO81].  
**significantly** [BWB<sup>+</sup>20]. **Silicide** [KEJ87, TDM<sup>+</sup>87, Tu90]. **Silicides** [MCAW95]. **Silicon** [Ano06b, CSY79, CK79, CGN72, DO74, DJ70, DA77, FT64, FFH64, GK60, GBC65, HND<sup>+</sup>06, IJV19, JD66, JD67, Ker64, LL83, Leh64, Lev64, LD74, Lip92a, Mar64b, Mey00b, Moh70, Pet79, Pet80, Pli66, PK61, Rut64, SW98, SST<sup>+</sup>98, SCYK78, SBdF64, TY64, WKW60, YS64, ATW<sup>+</sup>08, BBH82, CG71, DFF<sup>+</sup>15, EB99, FMS<sup>+</sup>92, GI88, GOVC71, GBBM90, GLG<sup>+</sup>99, HC69, Hei90, Hes99, HST06, IFB<sup>+</sup>11, JGD<sup>+</sup>08, KMK68, KAB<sup>+</sup>05, KAD<sup>+</sup>08, KOT99, Lar80, MFPJ71, MPCF82, Ngu99, OR92, OS99, PW68, PSW<sup>+</sup>07, PM72, SAT<sup>+</sup>08, SRH<sup>+</sup>18, Tu90, WNV<sup>+</sup>02]. **silicon-based** [Ngu99].  
**silicon-carrier** [ATW<sup>+</sup>08].  
**Silicon-Dioxide** [Moh70].  
**silicon-dioxide-based** [WNV<sup>+</sup>02].  
**silicon-gate** [BBH82]. **silicon-on-insulator** [IFB<sup>+</sup>11, SRH<sup>+</sup>18]. **silicon-silicide** [Tu90].  
**Silver** [JC63, MFS<sup>+</sup>11, WTS<sup>+</sup>11]. **SimAPI** [HKLM97]. **SIMD** [CBB<sup>+</sup>05, SKP<sup>+</sup>15].  
**Similar** [Hau67]. **similarity** [FRPG01].  
**Simple** [Dod63, GMT57a, GMT57b, Knu90, OG87, Emm97, Fre04, JL90]. **Simplex** [Dan60, Tom72]. **simplification** [MD12b, MBB<sup>+</sup>18]. **Simulate** [NM65].  
**Simulated** [CCP85, DKN87]. **simulating** [Oht95, OIM<sup>+</sup>13]. **Simulation** [ADG<sup>+</sup>92a, BBHS84, BF69, CD78, DS65, EHHP67, GHP<sup>+</sup>85, GHKO57, GC81, HS85, HW81, Hui90, IS83a, IS83b, KGCS85, Kra81, KP80, LL83, LB85, LS75a, LS75b, LCH74, MJ64, MME<sup>+</sup>97, Par66, SBT87, Sti79, TGL<sup>+</sup>12, VSF65, AKRS04, ABM<sup>+</sup>01, BH11, BGL07, CH06, Dan66, DT08, DLJ<sup>+</sup>08, Duk93, EWBR09, ETWO08, GZE<sup>+</sup>05, HKLM97, Ham99, Hei80, JZ91, KL97, KKM02, KKB<sup>+</sup>09b, KWH<sup>+</sup>12, KLE71, LS77, NDM<sup>+</sup>04, PBC<sup>+</sup>06, PZGL91, SMP<sup>+</sup>04, SS82, Sta89a, SvBC<sup>+</sup>04, TMF<sup>+</sup>08, Tib93, Van97, VMG99].  
**Simulation/evaluation** [MME<sup>+</sup>97].  
**Simulations** [Cle81, EKS<sup>+</sup>04, BS91, CA01, DKA<sup>+</sup>05, ESHM95, FRE<sup>+</sup>08, HdTR06, PSP06, ZEH<sup>+</sup>08, ZHP<sup>+</sup>18]. **Simulator** [BHV85, ST75, BJW72, vBBE<sup>+</sup>02, LH84, SBP<sup>+</sup>03, TAE<sup>+</sup>07, CR84]. **Simultaneous** [Ano05c, Bre72, Sau81, ABB<sup>+</sup>15, Bra72a, LPPT86, MMM<sup>+</sup>05]. **Single** [BGR82, Boy60, BS64, Cam57, Dav77, Fre62, GRH<sup>+</sup>08, GMW80, Hal76, HCS80, LM85, LS64, Lik88, Mar60a, Mee67, MRG99, RBC78, RWC80, Wor06, BH89, CDM89, Cla03, CH82, DTH92, HMM82, MRH89, Tan08, WGS04]. **Single-Chip** [BGR82, Cla03, DTH92]. **Single-Crystal** [Boy60, Fre62, Mee67, BH89]. **Single-Cycle** [RBC78]. **Single-domain** [Wor06].  
**single-event-effect** [Tan08].

**Single-event-upset** [GRH<sup>+</sup>08]. **Single-Flux-Quantum** [GMW80]. **single-grain** [CDM89]. **Single-pass** [MRG99]. **Single-Step** [HCS80, CH82, HMM82]. **Single-Stylus** [LM85]. **singly** [Rat68]. **Singular** [FBHJ04, Rob67]. **Sinusoidal** [BF63]. **SiO** [CFH64, CL64, DYHS78, KG80, KLBP64, MJS70, MU77, OG80, RF78, SJ70, SARG80, YDHS78]. **SiON** [BGO03]. **SIP** [WNW<sup>+</sup>10]. **site** [RBB<sup>+</sup>02]. **sites** [Fre72]. **situ** [Ahn66, DR93, MFS<sup>+</sup>11, ODL<sup>+</sup>09, Ros00, Sek93]. **Situational** [BPG<sup>+</sup>16]. **Six** [CIE<sup>+</sup>03]. **Size** [FK60, Mer88, Seg62, Smi60, War63, AKKJ72, ALH95, Bou97, DDMS92, FS82, Hat72, Lam77b, Pes71, Yas07]. **size-biased** [Yas07]. **Sizes** [Bry75]. **Skin** [BSRG17, WWMS79]. **sky** [SJZ<sup>+</sup>15]. **Skylab** [CI76]. **Slabs** [CS65b, Mee67]. **SLAN** [BHP83]. **SLAN-4** [BHP83]. **SLDNF** [CHdTG92]. **Slider** [SM63, TT74, BCT89, BHHO59, Dec90, Gro59, Mic59]. **Slimming** [Dod63]. **slip** [EC71]. **slow** [Gra71]. **Slowdown** [CW77]. **SLT** [BA69, TS69]. **SM** [SKLC20]. **Small** [ABPS66, Bra68, FWW88, Gae79, Gef88, HLS81, Len58, Lew83, LBH<sup>+</sup>75, Sta89c, VRL10, BS71a, CCJH81, DKR12, Har71, Lew73]. **small-amplitude** [BS71a]. **Small-area** [Sta89c]. **Small-Computer** [Len58]. **Small-signal** [Bra68]. **smart** [Elg11, HSL<sup>+</sup>10, RWP16, TYSS19]. **Smarter** [ABD<sup>+</sup>14, CNP<sup>+</sup>15, DLN14, HPW11, Pal14, RS14, WP11, BDMN14, DGH<sup>+</sup>14, GMR10, GDLS14, HMP<sup>+</sup>11, JWW<sup>+</sup>11, SFH<sup>+</sup>16, SKC<sup>+</sup>10, YMR14, ZBG<sup>+</sup>10, HEH<sup>+</sup>10, Jen10, MVCW10, MI10]. **smectic** [CJ78a]. **SMoLCS** [AR87]. **SMS** [WZC<sup>+</sup>10]. **SMT** [Ano05c, MMM<sup>+</sup>05]. **SN** [SG77, HHA93, Hor98]. **Sn-Pb** [HHA93, Hor98]. **SNA** [FP83]. **SNC** [JSS13]. **SnTe** [CSE66, MDJ<sup>+</sup>70]. **SnTe-MnTe** [MDJ<sup>+</sup>70]. **SOA** [CFH<sup>+</sup>09]. **SoC** [DL02]. **Social** [BEJ<sup>+</sup>14, RDL19, BDMN14, DGH<sup>+</sup>14, EEM15, KSSC<sup>+</sup>13, MDMN10, RVT<sup>+</sup>13, SXW<sup>+</sup>13, YCJ<sup>+</sup>17]. **sockets** [BEE<sup>+</sup>02, CRM02, NMF10]. **sockets-based** [BEE<sup>+</sup>02]. **SoCs** [PZK<sup>+</sup>03]. **Soft** [BSK<sup>+</sup>08, MS96, SKK<sup>+</sup>08, ZS96, BH80, Del08, KCOW08, ORT<sup>+</sup>96, RBK<sup>+</sup>08, Sri96, Tan96, ZMM<sup>+</sup>96, ZCM<sup>+</sup>96, van89, MBB<sup>+</sup>01]. **Soft-error** [BSK<sup>+</sup>08, MS96, SKK<sup>+</sup>08, Sri96, ZMM<sup>+</sup>96]. **soft-magnetic** [van89]. **SoftRDMA** [NMF10]. **Software** [AFP<sup>+</sup>01, Ada84, BHP83, BBG<sup>+</sup>14, Car81, CBD<sup>+</sup>09, DR82, DOJ<sup>+</sup>14, FHL<sup>+</sup>14, KFW<sup>+</sup>14, LBC<sup>+</sup>14, MSV14, MP88b, Ohb84, SMC<sup>+</sup>14, SH84, Tay84, VMH<sup>+</sup>83, ABC<sup>+</sup>99b, AAB<sup>+</sup>14, ABB<sup>+</sup>03, AAS<sup>+</sup>14, AHH<sup>+</sup>14, BKN10, BFH10, BGJ<sup>+</sup>17, CHH<sup>+</sup>01, CDD<sup>+</sup>10, DYK10, GMR10, GLM<sup>+</sup>96, JWS<sup>+</sup>09, JML<sup>+</sup>18, KRJ<sup>+</sup>14, KM20, LH03, Mar12, MOG<sup>+</sup>19, MP88a, OEN<sup>+</sup>16, Pig88, PAB<sup>+</sup>05, RP14, RIB<sup>+</sup>13, VRL10, VH81, WMK<sup>+</sup>07, WTT<sup>+</sup>14, WBT<sup>+</sup>10, WA15, DBC<sup>+</sup>06]. **Software-Cache** [VMH<sup>+</sup>83, VH81]. **SOI** [FAD<sup>+</sup>07, FCE<sup>+</sup>15, LBB<sup>+</sup>13, Nin02, PZK<sup>+</sup>03, Sha02]. **Solar** [BV78, CSY79, DHM75, HC78, PCDW78, SCYK78, KLHW16]. **Solar-Grade** [CSY79]. **Solder** [FHL<sup>+</sup>82, GLCW93, LCB93, Spr61, KLS<sup>+</sup>05, CGLL93, Cor93, Mah93, RBWH93]. **Soldering** [GS82a, SPP72]. **solders** [Hor98, KLS<sup>+</sup>05]. **Solid** [CGG<sup>+</sup>64, Chu82, DHSC64, DHSC00, Far87, Kuz70, LY83, PHCR81, SS61, WWK<sup>+</sup>87, Wyn64, BKB76, Moi91, Nii95]. **Solid-Burst** [Wyn64]. **Solid-State** [SS61, Nii95]. **Solidification** [CSY79]. **Solids** [BH79, Pri60, FGW81]. **SoLoMo** [CDL<sup>+</sup>14]. **Solomon** [Bla84a, Bla84b]. **Solubility** [BS77, MLSS84]. **soluble** [SPP72]. **Solution** [BDMW81, Bil70, BGT74, Bog79, CHBH85, CS65b, Dub72, FPS66, FK62, Her66, HWC75, Kog74, Ku63, Luk75, PF66, Sau81, Sch84, SLLP64, VDG19, BSHM01, BBE<sup>+</sup>20,



[Flu67, Log70, LMD70, MJS70, SK69, Jon72, MU77, Pen69]. **Sputtering** [CGHK77, KP79, KS79, KM70, Maz70, PDLM67, SJ70, KM00]. **SQL** [KBA07]. **SQL-based** [KBA07]. **Square** [Che72, HBC70, Jam89, MM83]. **Squares** [Cio86, Goz94]. **Squarylium** [Lew78b, Mer78]. **Squeezable** [Han86]. **SQUID** [KKT<sup>+</sup>95]. **Sr** [KBS<sup>+</sup>99, BEH<sup>+</sup>89, EHK<sup>+</sup>89]. **SRAM** [Fre96, MAB<sup>+</sup>03, PC07]. **Stability** [Blu79a, Bra64, CHBH85, CTT66, Gil79, GS84, HA00, Ode87, Pis74, van88, vv86b, Bra68, FGMPK05]. **Stabilization** [KLBP64]. **Stable** [Hut74, Gri04, LO72]. **Stack** [Jel69, BK75, CBV08, GGK<sup>+</sup>13, JSM<sup>+</sup>18, RIB<sup>+</sup>13, Shi72]. **stacked** [KBS<sup>+</sup>99]. **stacked-capacitor** [KBS<sup>+</sup>99]. **stacking** [DWA<sup>+</sup>08, SAT<sup>+</sup>08]. **stacks** [GNF06, OKH<sup>+</sup>02, SGS<sup>+</sup>09]. **staffing** [HRS07]. **Stage** [BT67, Kar74, BBS<sup>+</sup>03, Sch91]. **Staggered** [Bra94]. **Staging** [GLS74]. **Stand** [Don80]. **Stand-Alone** [Don80]. **Standard** [KBK<sup>+</sup>97, RS85, AHM<sup>+</sup>07, GHL<sup>+</sup>04, NFI<sup>+</sup>08, Cop94]. **Standard-cell-based** [KBK<sup>+</sup>97]. **standards** [HMP<sup>+</sup>11, RWP16, SP14, WP11]. **standards-based** [WP11]. **Start** [Mil83]. **Start-Up** [Mil83]. **State** [Bar80, CH84, Fra70, LY83, PHCR81, SS61, van73a, BD74, BGL<sup>+</sup>92, HBW70, Hun71, ILH03, KM73, Nii95, PL73, SBG<sup>+</sup>71]. **State-Of-The-Art** [CH84]. **Stateless** [VDO14]. **Statements** [MR87]. **States** [Ahu79, Erd88, Gar86, KJ86, Key61b, Lit62, CSH<sup>+</sup>89, HJS98, Rus04, Sho04, Swi62, WSCK17, Irv93]. **Static** [Cha62, Cor84, Mid62, CTT91]. **Stationary** [LS76b, Pai72, Boh73]. **Statistical** [BNW99, How89, HRS07, KMO64, LS76b, Osb93, Pri58b, TAR84, Yas87, BTWY92, Fer70, KSSC<sup>+</sup>13, Luh57]. **Statistics** [SAR81]. **Status** [SP90, Bar62, SKB<sup>+</sup>11]. **STB** [Kle64]. **Steadily** [Gun66b]. **Steady** [BGT74, BT78, ILH03, KM73, van73a, PL73, SBG<sup>+</sup>71]. **Steady-state** [ILH03]. **stealthy** [SJW<sup>+</sup>16]. **Steam** [DJ70, Pli66]. **Steel** [Keh65, DKRS07, Yan07]. **steelmaking** [LMHM96]. **steepest** [Lan66]. **Steering** [Wal57, GKMP04]. **Steiner** [Hal60]. **STEM** [UBK<sup>+</sup>88]. **Step** [HCS80, LM80, War63, CH82, Gla97, HMM82, SHL<sup>+</sup>20, SHTP11]. **Step-Size** [War63]. **stepper** [BDS<sup>+</sup>97]. **Stepping** [Fre67, BSSZ76]. **Steps** [KWB88, ABM88, GI88]. **stewardship** [OB09]. **STI** [SNA02]. **STI-to-PCI** [SNA02]. **stiff** [LO72]. **Stimulated** [BN63, SB64, SCHL66, SL66, SLHM67, SAL63]. **STM** [ARM<sup>+</sup>01, ALH95, CWC95, MPD86, RCH<sup>+</sup>86, Vie86]. **STM-excited** [ARM<sup>+</sup>01]. **STM/STS** [ALH95]. **Stochastic** [AP69, Ast67b, LS76a, PS86, el 69]. **stock** [Her72, NBF<sup>+</sup>16]. **stop** [ESS<sup>+</sup>20, Mer04]. **stopping** [LS77]. **Storage** [AKK<sup>+</sup>67, BF77, BGM<sup>+</sup>67, BM96, CT76, Cho74, Cio86, DR08, Eas86, Fal70, FB78, FC79, FW08, GLS67, GA84, GFHW82, Hoa61, JMP96, Kan74, Lom75, Lom76, Lom80, MS75, Mul74, Pat80, Pet57, Win70, van72, van73a, ABE<sup>+</sup>02, ADS72, AAB<sup>+</sup>14, ABB<sup>+</sup>12a, ABB<sup>+</sup>00b, BAB<sup>+</sup>18, BS03, BBC<sup>+</sup>08, Bro72, BKS<sup>+</sup>08, BGJ<sup>+</sup>17, CPT<sup>+</sup>08, CMR<sup>+</sup>90, CAC<sup>+</sup>13, CDC96, CHJ<sup>+</sup>18, DM03, EÖH10, FGH<sup>+</sup>06, GBJ<sup>+</sup>08, GAB<sup>+</sup>08, Gri69, GJ00, HKA<sup>+</sup>13, HYA03, Hoa00, HCK<sup>+</sup>05, ILH03, IS20, JL99, JS72, KAB<sup>+</sup>12, MDJV08, MTF<sup>+</sup>95, MA96, MC87, NFI<sup>+</sup>08, ODA<sup>+</sup>08, Okl03, OCT68, PSA<sup>+</sup>08, Pat89, Poh95, vdp72, RCFN<sup>+</sup>08, SGY<sup>+</sup>98, SLC09, SMC<sup>+</sup>14, SG94a, Sou96, Ste81, Sur15, TB00, Tue76, VDD<sup>+</sup>00, WSK<sup>+</sup>93, van73b]. **Storage-Channel** [Cio86]. **Storage-class** [FW08, BKS<sup>+</sup>08, Sur15]. **storage-hosted** [CPT<sup>+</sup>08]. **Store** [Ahu80, CM80, Has66, JT66, MPST66, SL76, BZ06a, MHR<sup>+</sup>15]. **Store-And-Forward** [SL76]. **Stored** [EKMW64]. **Stores** [TK64]. **Storing**

[vv86a]. **STORK** [dTGH92]. **Straight** [Tay79]. **Strain** [CGLL93, KS01, Seg62, Smi60, SST69, AAC+06, WGC93]. **Strategic** [Num09, PKXK07, KRTN+12, RAR+14, WCK+07]. **Strategies** [CFL73, Her75, WN92, BBD+02, TGL+12, TKG89]. **Strategy** [DR08, MM82, CHG04, HKR+97, MAF+99, TFL82, WAB+05]. **Stream** [Bur75, HKA+13, SM71]. **streaming** [WLKS98, ZSY+13]. **Streams** [HAG+13, SS76, KCML13, VMAB18]. **Strength** [CM80, Keh65, Smi77, Cop94]. **Stress** [CS65a, CN79, CEHL78, FMS+92, Fre62, LR65a, SM62, Tan74, BBF+05, Cha69, Fuj92, HRS+95, Ibe03, You90]. **Stress-induced** [FMS+92, HRS+95]. **Stress-Insensitive** [LR65a]. **Stretch** [Buc62]. **stretching** [LC83]. **String** [Eas75, GS74, BW81b]. **Strings** [Eas78, KGT88]. **Strip** [ALL77, LC83]. **Stripes** [CH76]. **stripping** [HHA93]. **Strips** [DKAC67]. **Strong** [KT73, OYHSB14]. **Strongly** [FWW88]. **strontium** [Pen69]. **Structural** [SWF+09, Win70, ACM+89, Cor93]. **Structural-Information** [Win70]. **Structure** [Adl70, BW81a, BKM80a, BB60, CH74, DJ70, GSVE83, HK64, Lan86, McC64, MY67a, MY68, OHSP76, Slo66, SAL63, WTP64, AIH+98, BEK+02, CGH+17, CBB+04, DGL+97, EHLSW01, FNRF89, GOVC71, Haa70, Kit89, PS91, RQBW08, SNA02, TMS+01, Won90, YR91, ZVW+11, ZBL+72, van89]. **structure-prediction** [EHLSW01]. **Structured** [BBHS84, Cow87, KBP+12, MW82, Kel73, McN94, RK15]. **Structures** [CFG64, EP86, FFH64, FWW88, Ham78, Hoa58, KW83, Wei65, BGK+82, BFH+93, CJ78a, CPTW98, FLP90, FHPR01, Gri04, Gus03, HHB+89, HS71, KB06, Lud00, MMV+01, SLYR72, SHTP11, TMF+08, Tu90]. **Structuring** [Urs75]. **STS** [ALH95]. **student** [WA15]. **students** [ITS+15]. **studied** [Lud00, Ros00, SN98]. **Studies** [BC60c, BA69, Bru78, DHTW86, DA77, FL59, Lun79, MP67, Sam59, Sam67, SLHM67, Spo94, BEH+89, CSH+89, EHK+89, FNRF89, GDLS14, HMO81, HF91, JS00, LFC95, Mat95, MMV+01, Sam00, TWRW89]. **Study** [Ada80, BBS78, BP84, BFT79, BT84, CEHL78, CK63, Dic60, Fan61, FT77, Fuj92, Gha75b, Gre79, Hor62, HBR85, KW83, Lev77, Lye77, O'H78, PFS+70, Spe69, SS87b, TDM+87, Tri58, AO97, BGW91, BHHO59, CSW73, CWC95, CJ78a, DCC+17, DP68, Dus71, Gro59, HHA93, HBR86, KIF+89, LB07, Mic59, Okt69, QS67, RR69, SKK14, SF93, SXYP12, WLH+17, WS72, YTF+11]. **Stuffer** [Hel79]. **Stylus** [LM85]. **Styrene** [DS65]. **subassemblies** [TJHK03]. **Subclasses** [MD65]. **subdued** [Okt71]. **Subharmonic** [Net60, Las61]. **Subject** [Ano92h, Ano93f, Ano93g, Ano94t, Ano94u, Ano95l, Ano97j, Ano98l, Ano99i, Ano00j, Ano01o, Ano02b, Ano03b, Ano05d, Ano06d, Ano07b, Ano08c]. **subjected** [Bau72, KS01]. **Submicrometer** [CH76, TT75, BK76]. **Submicron** [JVP+90, TDM+87, BGK+82, EKTT90, FKOP90, RG90]. **Submicron-gate-length** [JVP+90]. **submodular** [DH03]. **submonolayer** [HKvG+11]. **Subnanosecond** [DB79, Dha68]. **subnetworks** [SS82]. **suboptimally** [Dur70]. **subpixel** [Pri94]. **Subroutines** [AC86, RV89]. **subscribe** [SCW10]. **subscripts** [HL72]. **Subsequent** [DJ70]. **subset** [Nob95b]. **subsidence** [Gam72]. **subsoil** [Gam72]. **substituted** [Sui75]. **Substrate** [Log70, MU77, ADG+92b, DKA+05, TKK+92]. **Substrates** [KM74, GSG+90, GWRS90, KFSZ92, LGBV17, SGS+09]. **Substructure** [KP63, MHS62]. **Subsurface** [Fre72]. **Subsystem** [BS84a, CDG83, DSW63, FLS78, MTS84, Mil84, Pat85, WCB+86, AFFS98, BSK+08,

BBC<sup>+</sup>12b, CBB<sup>+</sup>04, CCD<sup>+</sup>09, CW91, GCS<sup>+</sup>12, HBL<sup>+</sup>99, HBL<sup>+</sup>02, ICO71, JDBP10, MSB<sup>+</sup>04, MWS09, McN94, MLMP<sup>+</sup>12, MCG<sup>+</sup>15, OHK<sup>+</sup>07, OBB<sup>+</sup>05, OWG<sup>+</sup>13, SHR<sup>+</sup>09, SBC<sup>+</sup>02, WMB<sup>+</sup>15].

**Subsystems** [HPWW81, GBRJ05, LGF<sup>+</sup>03, SSD<sup>+</sup>15, WMK<sup>+</sup>07, WYTO04].

**subtraction** [CNH73]. **success** [DL02].

**Successes** [Lai08]. **successful** [vKCD<sup>+</sup>10].

**suicide** [VMAB18]. **suicide-related** [VMAB18]. **Suitable** [JH80, MS89]. **suite** [CP97, CM98]. **Sulfate** [Tri58]. **sulfonic** [HHA93]. **Sulfur** [BS77]. **Summary** [Gli69].

**Summit** [AHK<sup>+</sup>18, Ano20f, BBE<sup>+</sup>20, CFP20, Lie20, LSS<sup>+</sup>20, SGS<sup>+</sup>20, TTM<sup>+</sup>20, WSJ<sup>+</sup>19].

**Sums** [Dub83, MM83]. **Sunlight** [Hov78].

**Supercomputer** [MNR86, ABB<sup>+</sup>13, AAC<sup>+</sup>05, ADG<sup>+</sup>05, BGH<sup>+</sup>05, BBK<sup>+</sup>08, CNC<sup>+</sup>08, CBC<sup>+</sup>05, CHT<sup>+</sup>13, DLJ<sup>+</sup>08, EFR<sup>+</sup>05, Han20, Pic91, PBK96, TTM<sup>+</sup>20].

**Supercomputers** [Ano20f, BBE<sup>+</sup>20, Lie20, PZGL91, SGS<sup>+</sup>20].

**Superconducting** [AW62, AOR62, BBG60, CJT62, Col62, Cro57, Dou62, Dui59, EGS60, GL62, Jon60, JH80, KDBT60, Kro58, Kur57, Lit62, Mas62, Ree59, SM62, ACM<sup>+</sup>89, BPL<sup>+</sup>89, BEH<sup>+</sup>89, BH89, CSH<sup>+</sup>89, EHK<sup>+</sup>89, GSG<sup>+</sup>90, WSK<sup>+</sup>93].

**Superconductivity** [BTH62, Coo62, HBL62, Mar62, Mat62a, Men62, SSN<sup>+</sup>62, ABK89, Ano62e, Bar62, BCSE89, Eme89, Kat89, KIF<sup>+</sup>89, Pet89, Ano89].

**Superconductor** [DSSS64, Mei62, AC84].

**Superconductors** [GM62, Goo62, LeB62, Map62, Mor62, Tin62, DY89, FNRF89, FL89, Gou89, HHB<sup>+</sup>89, KC89, Kel89, Meh89, Mor89, Sch89, Var89].

**Superconformal** [MWEJ05].

**Supercurrent** [Gar57]. **Superimposed** [Coo62]. **Superlattice** [ET70, BA70, Pri73].

**superlattices** [MSG<sup>+</sup>01]. **Supermarket** [Bra80, DSW82]. **Superplastic** [Fie65, RK72]. **superscalar** [BGW<sup>+</sup>04].

**Supplier** [DKR12, ABH<sup>+</sup>19]. **supplies** [BR09b, Cov92]. **supply** [BBSW97, DKR12, GCFW07, NQ20, NNGV19, SKK14, SP14].

**supply-chain** [DKR12]. **supplying** [Yar12].

**Support** [DR82, AFP<sup>+</sup>01, ABC<sup>+</sup>99b, AYA14, AEH<sup>+</sup>04, BS06, BCR91, CGM<sup>+</sup>15a, CDG<sup>+</sup>10, DMG<sup>+</sup>17, DCC<sup>+</sup>17, DOJ<sup>+</sup>14, FGK<sup>+</sup>07, GDLS14, JWW<sup>+</sup>11, KBJ<sup>+</sup>18, KS90, KBK<sup>+</sup>97, LGW<sup>+</sup>15, LPMDG14, ST17, SKC09, TBS09, VWE02, VMS<sup>+</sup>14].

**Supported** [Ham78, HKvG<sup>+</sup>11].

**Supporting** [BHH19, DLW86, EEM15, Kum98].

**suppression** [Bus71]. **Surface** [AMGC86, AS78, ABM88, CFH64, DV64, DHTW86, DM64, FT64, Far87, GH86, Goo62, HBR85, KS66, Leh64, Mar64b, Mei62, Mor79, ODK<sup>+</sup>99, TY64, Tu90, WSW83, WS64, YS64, YAJ90, DR93, HBR86, LV94, MFPJ71, OS99, SRD94, SF93, TZZ<sup>+</sup>11].

**Surfaces** [Bru78, Chu82, CM74, Dem78, DJ75, DB76, FF86, GH86, HSM84, IM57, Jon65, Lud78, Pan78, PCDW78, Pol78, Pri60, Sch62a, Sou64, ALH95, BNT86, DF15, EM94, EC71, GI88, Kep75, KJSG<sup>+</sup>88, MSG72, RK72, SA00, SHTP11].

**surgery** [TFJ<sup>+</sup>96]. **Surplus** [El 74, Agi74]. **surprise** [SMSC14]. **Surveillance** [RMR94]. **Survey** [Hei76, IM57, Met70, Rue79, WET<sup>+</sup>10].

**Survival** [Bar75]. **Suspend** [HS82].

**Suspension** [CHBH85]. **Suspensions** [SH63]. **Sustainable** [YT16]. **SW** [KKS02].

**SW4** [PLS20]. **Sweep** [KST58].

**Sweep-Position** [KST58]. **sweeps** [EKR87].

**Swelling** [BP84]. **Swinging** [Hea76].

**Switch** [ABCR65, Con58, DWGC85, LV67, Mar59, PRY65, Sea58, BJM<sup>+</sup>06, Dha68, DMR<sup>+</sup>81, EB91, Eng03, GLOS92, HAMC<sup>+</sup>04].

**Switch-Type** [DWGC85]. **Switchable** [Rab69, RHC73]. **Switched** [Hop61].

**Switches** [Chi60a, Con60, Kar74, Pet79].

**Switching** [CP63, DC73a, DW58, DPW60, Die62, Eic65, HP84b, Kan74, KP59, Net60,

Pea69, RTM65, Roe66, She59b, SLLP64, TW74, Thr65, Cor69, DCB77, DPW00, May60, Rey69, RR69, RW59, RHC73]. **Switching/Memory** [Pea69]. **switchover** [MWW+07]. **SXGA** [CAW+98, SS00]. **Sylog** [FGP+85]. **Symbol** [Kur87]. **Symbolic** [FLKA84, Sur69]. **Symmetric** [Dub72, Key61b, Ost84, PS86, Bra94, MSB+04, RSS91, Sho04]. **Symmetrical** [Wal57]. **Symmetrical-Transistor** [Wal57]. **Symmetries** [AS87, Bra94]. **Symmetry** [But88b, Pen88, Wee79, HM89]. **Symposium** [Ano70b]. **symptoms** [Pon17]. **Synchronization** [ARV64, Cha67, PR71, GHW+20, NG17]. **Synchronous** [Fra80a, BCF+07, CN71]. **Synchrotron** [JS00, Arc93]. **syndrome** [BC00]. **synergistic** [FAD+07]. **synergy** [JWS+09, NQ20]. **Syntax** [Mou86, Bro85]. **Syntax-Driven** [Mou86]. **Synthesis** [BMW83, BHD+05, Bud67, Chi60b, DJBT81, DBG+84, EKMW64, HP66, HO75b, Hud63, Kau81, May60, Rem67, WW75, BOS+95, Ber76a, CT06, DBG+00, DSW71, Gus76a, Gus76b, MSG+01, RW59, SKB+96, Wie76]. **Synthesized** [Whe88]. **Synthetic** [van77]. **Sysplex** [GHW+20, DP13, DEH+12, GPE99, RKW99, SKE+18]. **System** [ACG+87, AST67a, AEGP67, AS74, AHM+07, ABG+09, BEK+02, Bar75, BJS80, BBC+12a, BCF+07, BAV+09, BCD+85, BGM+67, BT67, BS84b, Bro78, BDH76, CdLS92, Cha87, COC61, Cha74, Cha75b, CCD+09, CAC+13, CFH64, CDW75, CLOR87, CAD+09, Com83, CI76, CD85, CPZ63, CDH64, CW91, DFM+88, DTH92, DBG+84, DMWW77, Dav80, DR08, DGG+92, Del08, DMP59, DSW71, EHHP67, ELZ79, ELMR77, FLW78, FLKA84, Fle58, FLR77, FGK+07, FL67, FN71, FGM+83, GGRW91, GLP76, GL87, GRT74, GMT57a, GMT57b, Hai85, Haj91, Hal76, HDW+07, HY84, HTH+09, Hen68, Hoa61, Hop61, HP84b, JWS+09, Kan74, KST58, KKB+09b, KBG+09, Lat73, Leh78, LH57, LH00, Lev64, LS76b, LW77, Lin84, LBH+75, LN79, Luh58b, MWS09, MC09, MDJ+70, MPS77, MDR+07, May85, Maz70, MP61, MW82, Mon82a]. **System** [NHH91, OHK+07, PH79, PL83, PPS82, Pla76, PSW+07, Pri07, PS09, RHM+99, RFC+07, RH75, SWF+09, Sar91b, SHR+09, SKC09, Sea57, Sha58a, Shi85, SBDT+09, SY73, SV91, Sow84, SBC+12, SW67, SLP+20, TSNF88, Tay84, TAE+07, Tit61, Tod78b, TBB+09, TAR84, TSC91, TBS09, WMK+07, WLPL+80, Whe88, WHK+09, Wre83, WC75, Zab79, ZST+07, AHK+18, APRS16, AEZ84, AYA14, AKRS04, AUW+09, ADG+92b, ABD+18, ADH+07, ALS81, AHH+14, BCD+17, Bar78, Bar68, BHRS72, BBD+02, BMF+16, BMPS91, BSD+20, BNN+09, BKM+69, BBD+98, BC18, BH80, BKRF02, BBC+08, BCC+01, Bro72, BCR91, Buc62, BMT+90, BGJ+17, CJ83, CP97, CTD+16, CDM92, Cor69, CBD+09, Cre81, DBG+00, DBB+02, DeM91, DMG+17, DT08, DBC+05, DCC+17, DAB+97, DGL+97, DEH+12, EGH+86, FKL+08, FW08, GBC+05, GDB16, Gra69, Gra71]. **system** [Gri69, Has98, HZG+16, Hoa00, HDK+11, HCG+13, JSS13, JDBP10, JML+18, JC00, JWW+11, KMC+11, KGT88, Kis96, KAB+05, KKM02, KCH+09, Kon69, KSB07, KTD20, KHZ+08, LNT08, LSF84, LSZ+10, LMPP69, MMS05, MBJ+97, MSB+04, Man90, Mat89, Mey81, Mol69, MTB+90, MVI+07, NCB03, OMA+96, OCT68, PMS+08, PBC+06, PR71, RAG11, RRMD17, Rei69, RBK+08, RMM20, RD12, RMM03, RIB+13, SGY+98, SMP+04, SG95, SMC+14, SKT+05, Sta75, Stu70, TW85, TMS98, TDF+02, Tib93, Tol97, TPF+91, VAB+05, VTC09, WZC+10, WMH+97, YAH+96, YG81, ADG+92a, ACG+86, ACF+80, ABB64, ABB00a, AHJ+57, Aus90, BLM+92, BGM90, BEM+92, BM84, BGM+67, BBMP92, BRB92, BDS+97,

Cal70, CMPR64, CMR<sup>+</sup>90, CTS<sup>+</sup>92, CDM92, CMW92, CDG83, Cov92, DHK<sup>+</sup>92, DGG<sup>+</sup>92, EGS<sup>+</sup>85, FL67, FAJ<sup>+</sup>94, GR92, GZM92, Gro90, GFS71]. **System** [Gum83, HHM70, HMR90, HOWP92, KS90, KLM<sup>+</sup>91, Lip92b, Mar90, MHR90, OG90, Pad81, Pad83, Pat80, RB90, Sam64, SSW91, Sta90, War90, WD94, Wil85, WCW82, WCK<sup>+</sup>07]. **system-level** [RBK<sup>+</sup>08]. **system-on-a-chip** [BBD<sup>+</sup>02, DBB<sup>+</sup>02, NCB03]. **system-on-package** [KAB<sup>+</sup>05]. **system-wide** [KSB07]. **System/** [BGM<sup>+</sup>67, FL67]. **System/2000** [Wil85]. **System/3090** [SSW91]. **System/360** [AST67a, AEGP67, ABB64, ABB00a, Cal70, CMPR64, Pad81, Sam64]. **System/370** [ACG<sup>+</sup>87, FN71, ACG<sup>+</sup>86, CDG83, Gum83, Pad83, Sta90]. **System/390** [DTH92, KLM<sup>+</sup>91, CMW92, GR92]. **System/400** [BLM<sup>+</sup>92]. **System/6000** [Aus90, CMR<sup>+</sup>90, FAJ<sup>+</sup>94, HM90, Mar90, MHR90, War90, WD94, BGM90, Gro90, OG90, RB90]. **System/7** [HHM70]. **System/9000** [CW91, GGRW91, Haj91, Sar91b, SV91, TSC91, ADG<sup>+</sup>92a, BBMP92, BRB92, CTS<sup>+</sup>92, Cov92, DGG<sup>+</sup>92, GZM92, HOWP92, BEM<sup>+</sup>92, CDM92, DHK<sup>+</sup>92, Lip92b]. **Systematic** [SLZL18, WA79]. **Systematics** [UC62]. **systemic** [MBK<sup>+</sup>15]. **Systems** [Age04, Age05, AG06, Age08, Bal05, BHP83, CdLS92, CFL73, Cha75a, Cho75, CLW80, Cle81, CC76b, DFS98, DR08, Des02, Des04, DLW86, ES92, FGC92, GLOS92, Gha75b, GS74, GHK67, GA84, HW12, Hal60, HLS81, Hau67, HTH<sup>+</sup>09, HS82, Hov78, HCTS81, IS83b, Jam81, KP79, KSW74, Kob70, Kuh88, LS76a, Lei62, LD74, Nun09, OO81, Par66, Pen88, Pet76, Pri07, RK74, Roe66, Rot66b, SH57b, SH57c, SY92, SH84, Sur15, Swa60, TW62, Tay81, ZST<sup>+</sup>07, ABE<sup>+</sup>02, ABK89, AO97, AO01, AAB<sup>+</sup>16, Ano01c, AC84, AAB<sup>+</sup>05, AAM<sup>+</sup>07, AHHN11, BBMR19, BSJ<sup>+</sup>13, Bil72, BFH10, BK61, BHH03, BFG<sup>+</sup>99, BJ06a, BKP82, CSW73, CCJH81, CDC96, CDG<sup>+</sup>10, CMS85, DSS<sup>+</sup>92, Dur70, ESM16, EÖH10, Fer70, Fla91, FGH<sup>+</sup>06, FN95, FNY<sup>+</sup>10, GZM92, GM72, dTGHC92, Han20]. **systems** [HG14, IS83a, IMC<sup>+</sup>10, IJV19, Jee58, JL90, KBM<sup>+</sup>99, KL70b, KT70, Kob71, Koe18, KBC<sup>+</sup>03, LDJ<sup>+</sup>10, LQRS04, LJV<sup>+</sup>07, LRH<sup>+</sup>02, MLWC20, MDJV08, Mar12, MBF<sup>+</sup>07, MCH<sup>+</sup>82, MN97, Mos61, NAB<sup>+</sup>15, NAN<sup>+</sup>18, PLK09, PK88, PBK<sup>+</sup>09, PPG<sup>+</sup>01, PMW06, Pon17, PAB<sup>+</sup>05, QGT13, RQBW08, RFB<sup>+</sup>03, RH90, RW59, Sar91b, SRL<sup>+</sup>11, SAA<sup>+</sup>18, SPP72, SSMGD10, SBP<sup>+</sup>03, STW<sup>+</sup>08, SSN<sup>+</sup>15, SHL<sup>+</sup>20, SR19, SCW10, SDS<sup>+</sup>18, Ste01, SN15, SV92, TWX<sup>+</sup>10, Tue76, VAB<sup>+</sup>13, VLP<sup>+</sup>05, VVHL16, VLB<sup>+</sup>09, Wal86, WNW<sup>+</sup>10, ZHP<sup>+</sup>18, ABD<sup>+</sup>92, CNV<sup>+</sup>15, Pic18].

**T** [BCSE89, FNRF89, FL89, HHB<sup>+</sup>89, KC89, Kat89, Kel89, KIF<sup>+</sup>89, Meh89, Mor89, VAB<sup>+</sup>05]. **T1** [Irv91]. **T1-rate** [Irv91]. **T10** [NFI<sup>+</sup>08]. **Table** [Ano57w, Ano57x, Ano57y, Ano57z, Ano58r, Ano58s, Ano58t, Ano58u, Ano12l, Ano12i, Ano12j, Ano12k, Ano13c, Ano13d, Ano14k, Ano14l, Ano14m, Ano14n, Ano15l, Ano15i, Ano15j, Ano15k, Ano16e, Ano16f, Ano16g, Ano16h, Ano17d, Ano17e, Ano17f, Ano18e, Ano18f, Ano18g, Ano18h, Ano19k, Ano19l, Ano19m, Ano19n, Ano20i, Ano20g, Ano20h, Kin61, CGS61, Nob95b]. **table-based** [Nob95b]. **Tables** [Cle65b, MY67b, Mye72]. **tabulating** [KSH<sup>+</sup>08]. **tackle** [KM20]. **Tactile** [DWGC85]. **Tagging** [Tar63]. **tagline** [RAMD19]. **Tailoring** [Fer75, SRD94]. **Tails** [CCE<sup>+</sup>88]. **taking** [HST06]. **taming** [ZBBB17]. **tandem** [BCH<sup>+</sup>16]. **Tantalum** [SM62]. **Tape** [BBKW86, BS70, CDS<sup>+</sup>86, DM03, FT77, Gre79, HPWW81, Kis03, LS75b, Pat85, SH57b, SH57c, Sko58, WCB<sup>+</sup>86, ABB<sup>+</sup>08, Bau72, BP88, BE03, BS03, CIE<sup>+</sup>03, EÖH10, FCH70, HYA03, ILH03, ICO71, Jaq03, Led71]. **tape-head**



[Led71]. **tape-recording** [ABB<sup>+</sup>08]. **tapered** [GZM92]. **Tapes** [BTW62, CTT66, PH74, TW74, Voi65, BD74]. **targeted** [PSD<sup>+</sup>17]. **Task** [Kan74, BGH<sup>+</sup>05]. **tasks** [AKB<sup>+</sup>17, BHW<sup>+</sup>17, EBB<sup>+</sup>20, Sar91a]. **taxonomy** [CCF<sup>+</sup>10]. **TCAD** [LMW<sup>+</sup>01]. **TCNQ** [Lew78b, Mer78, SGT78]. **TCP** [Bou97, NMF10]. **TDI** [Sch91, WYS92]. **Te** [Sui75]. **Te-substituted** [Sui75]. **Teaching** [NBM<sup>+</sup>19, KdAC<sup>+</sup>15]. **teams** [DYK10, EEM15]. **Technical** [Ano57k, Ano57l, Ano57m, Ano57n, Ano58j, Ano58k, Ano58l, Ano58m, Ano59f, Ano59g, Ano59h, Ano59i, Ano60i, Ano60j, Ano60k, Ano60l, Ano61f, Ano61g, Ano61h, Ano61i, Ano62f, Ano62g, Ano62h, Ano63f, Ano63g, Ano63h, Ano63i, Ano66s, Ano66t, Ano66u, Ano66v, Ano66w, Ano66x, Ano67w, Ano67x, Ano67y, Ano67z, Ano67v, Ano67-27, Bax58, DR08, Sam81, DCC<sup>+</sup>17, GHN04, Mar12]. **Technique** [BLLS79, HMW74, Han57, HWC75, MD65, Nus77, PH65, RHM63, RP66, Skl76, Wes78, van77, APO192, EKTT90, FW67, HHA93, Hun71, KMK68, KO69a, LPPT86, Sit71]. **Techniques** [ÅC64, Aic84, Ber64, Bla59, Bla79, Bon64, BBH<sup>+</sup>67, BCRW82, Cha73b, GSVE83, Ken61a, Laf80, Llo67, LKL<sup>+</sup>81, MG62, Ode87, Par80, Smi57, SS87b, SSTF77, Tar63, Tro00b, Bag94, GRH<sup>+</sup>08, GCFW07, Hei80, JS00, KBF<sup>+</sup>92, LKFU05, MTF<sup>+</sup>95, McC69, NDM<sup>+</sup>04, OR92, Okt69, PBCC12, ST17, Sar91b, SWC<sup>+</sup>97, SLYR72, SPP<sup>+</sup>05, TGL<sup>+</sup>12, TG91, ZBBB17]. **Technological** [OO81]. **Technologies** [Att92, BNS15, CRH12, Cor18, GS80, Gon99, MT84, NNF15, Ser82, SW83, AEG<sup>+</sup>20, BGLM09, BKS<sup>+</sup>08, DAC<sup>+</sup>03, HNS<sup>+</sup>03, Law02, Rit13, Tag09, MVCW10]. **Technologist** [Mey03]. **Technology** [All81, Ana80, Ano19g, Ano19i, Ano20e, ABB<sup>+</sup>85, BSS82, Bal05, BMC86, BPS<sup>+</sup>96, BGK<sup>+</sup>80, BHWW77, BHWZ63, CKK<sup>+</sup>88, Che06, Che08, DHSC64, DHSC00, DR08, Des04, Don00, Eic18, Elm84, EHMW81, FHVZ80, Fle95, GHLW84, HW12, Hor93, Hor00, IK00, IBP<sup>+</sup>05, KGCS85, Kos15, KT84, Kua95, LMT84, LAG<sup>+</sup>84, LCB93, Lip92a, LSH79, Mat80, McG81, McG92, MTS84, Mey03, Mit94, NK81, Nun09, Pat18, PC85, PPS82, Pri07, RWL81, Sak79, STCR84, SGER10, Tro80, Tsu80, vM66, ADG<sup>+</sup>95, ABB<sup>+</sup>00b, AFF96, ABD<sup>+</sup>92, BK76, BRB<sup>+</sup>01, BPS81, BWB<sup>+</sup>18, BWB<sup>+</sup>20, BE03, BCK<sup>+</sup>05, BKRF02, BR82, BGL<sup>+</sup>92, BL98, CDD82, Car81, CNG09, CIE<sup>+</sup>03, CDM92, CBC<sup>+</sup>18, CM90, CM00, CGN72, CCW<sup>+</sup>02, CCE<sup>+</sup>20, DWA<sup>+</sup>08, DEG<sup>+</sup>01, EK08, Eng03, FRS<sup>+</sup>18, FN71, FHSD06, FCE<sup>+</sup>15, FW08, GGRW91, GWRS90, HHSR96, HRC<sup>+</sup>08]. **technology** [How92, Isa00, IFB<sup>+</sup>11, JMM<sup>+</sup>96, KBM<sup>+</sup>99, KAB<sup>+</sup>05, KYY<sup>+</sup>08, KBC<sup>+</sup>03, Kuo92, Lar80, MAB<sup>+</sup>03, Mey00b, OR92, OB09, PSA<sup>+</sup>08, PMV15, PZK<sup>+</sup>03, PSW<sup>+</sup>07, PBK96, RBB<sup>+</sup>08, RB92, RGPP95, SHWK<sup>+</sup>90, SAT<sup>+</sup>08, ST17, SI09, Sha02, SvNH13, SPP97, SHSY90, SHSY00, Sta02, SRH<sup>+</sup>18, SKE<sup>+</sup>18, SHM<sup>+</sup>12, The00, TB00, VRA<sup>+</sup>09, WR00, WBS<sup>+</sup>18, YT16, AFP<sup>+</sup>01, SAPT01, TFR<sup>+</sup>01]. **Technology-migratable** [BPS<sup>+</sup>96]. **telco** [CDL<sup>+</sup>14]. **telecom** [MDMN10]. **telecommunications** [Mey00b, VAB<sup>+</sup>05]. **teleconferencing** [BBD<sup>+</sup>98]. **Telephone** [ABCR65, BM63, Hop61]. **Telephony** [Dav58]. **teleportation** [BHM04]. **teleported** [Per04]. **TelePOVM** [BHM04]. **Telescope** [Hud76]. **television** [AFFS98, SA98]. **TEM** [Wee72]. **Temperature** [Ano89, Bre60, BN63, CFH64, ESM16, GM62, GS84, GMT57a, GMT57b, Ker64, Lin67, Mee67, ODR70, Sie70, SST69, Swe62, van88, Bea90, CNC<sup>+</sup>95, Eme89, Fuj92, JWSP06, Kah71, Mey90, Mey00a, Okt69, Pai72, Pet89, SHWK<sup>+</sup>90, SN02, Sch89]. **Temperatures** [CS85, Cre58]. **template** [TYSS19]. **temporal** [AEG<sup>+</sup>20]. **tenant**

- [KMM<sup>+</sup>16]. **Tennis** [BHP17]. **Tensor** [Ho66]. **terabyte** [CIE<sup>+</sup>03]. **Terascale** [FKL<sup>+</sup>08]. **Terephthalate** [Blu79a]. **Term** [FR60, GAC85, BBC<sup>+</sup>08, SSB<sup>+</sup>12]. **Terminal** [Cha75a, Sak79, BA69, Kon69]. **Terminals** [San83b, TL70]. **termination** [Lan66]. **Terms** [Esa62, Pli66]. **terrace** [SHTP11]. **Terrestrial** [ZS96, Zie96, Zie98].
- Test** [CW83, Doo83, EL80, EL83, GGKK96, OH74, Sch67, SW67, VTMB<sup>+</sup>90, BKP82, CPTW98, Fuj92, HBB<sup>+</sup>05, HMP90, HKR<sup>+</sup>97, KS90, KB06, LSF84, MTB<sup>+</sup>90, RB90, RH90, SWF<sup>+</sup>09, Sar91b, WLEF89, Won90]. **Test-Pattern** [EL80]. **testability** [Sta90]. **tester** [FKOP90]. **Testing** [BDWZ83, HO96, PW83, TC84, BTP<sup>+</sup>90, CAS<sup>+</sup>91, DDZ<sup>+</sup>07, FCH70, GWRS90, JPTW92, MKW<sup>+</sup>05, MPHC90, ORT<sup>+</sup>96, OCB<sup>+</sup>90, VWPB90, ZMM<sup>+</sup>96]. **tests** [Ibe03]. **Text** [Kin61, TSNF88, AAA<sup>+</sup>17, GGH<sup>+</sup>13, Irv89]. **text-oriented** [GGH<sup>+</sup>13]. **texts** [AC92]. **Textual** [CCFSZ12, MFL<sup>+</sup>12]. **TFT** [JPTW92, KSK98]. **TFT/LCD** [JPTW92, KSK98]. **th** [Kog59]. **Thallium** [GL62]. **Their** [Arm65, DG84, RS59a, Tro80, AO97, CCF<sup>+</sup>10, HK64, HA00, HBR85, HBR86, Jam89, Kum92, Lan60, Lud78, Sch96b]. **Theorem** [Dor60, Ode64, RS66, Shu94]. **theorems** [Mor73, Var19]. **Theoretical** [BT84, Coo62, FK62, Ken61b, Ku63, MP67, SB64, SM66, TC63, Wat60a, Wat60b, Gro59, Okt71, RR69]. **Theories** [Jon72, KJP11].
- Theory** [ARV64, Ast67b, BW81a, BBS78, BLR84, Bog79, DC73a, Dou62, FP73, Gar86, Gun69, HP63, Ho73, Hor57, IM57, Jon98, KO67, KP59, Lor70, LR65b, Mag73, Nes98, NB61a, Pip79, Pri59, Red57, RK75, RVV88, SS59a, Slo66, Tu75, Ung72, Ver88, Yas87, ZG65, Aas70, Bar62, Cha77, DCB77, EHL5W01, Gil60, GLS86, HBW70, KM73, MN03, MHI01, Mat03, May60, Mor73, Pai69, Pip81, Pri70, Riv87, Sch89, Str68, Wee72, WG19].
- Thermal** [BB82, CJT62, CN79, CS85, DS77, Jan69, Key65, Key70, Key71, LM85, LS64, Mah93, PC85, PW83, Rei66, San83a, SFD77, Str59, Twa85, WGC93, Bea90, BAV<sup>+</sup>09, BRB92, BSRM09, CGLL93, FGMPK05, GLCW93, HOWP92, Ibe03, ILH03, KLM<sup>+</sup>91, KS01, LD72, PHCM05, SCI05, VDP94, You90]. **Thermal-mechanical** [WGC93]. **thermal-to-plasma** [VDP94]. **Thermally** [Hem74, SGS<sup>+</sup>09, SST69]. **Thermally-Activated** [SST69]. **Thermionic** [VWJK11]. **Thermodynamic** [Jon60, Map62]. **Thermodynamics** [SI09, YHA71]. **Thermoelastic** [SMVK90]. **Thermoforming** [Fie65]. **Thermogravimetry** [DGB78]. **Thermomagnetic** [Hut74]. **Thermomechanical** [SJMBK08]. **thermoplastic** [ABR71]. **Thermostrictive** [KC66b]. **Thiacarbocyanine** [SCHL66]. **Thick** [JT66, MPST66]. **Thick-Film** [JT66]. **Thickness** [CC76a, PC64, HD73, PW68]. **Thin** [Bag94, BBG60, BBT79, Boy60, Cha62, CCH<sup>+</sup>96, CPTW98, DP59, DPW60, Die62, EGS60, FK60, Gar86, GM63, HM60, HCBA82, How92, JMM<sup>+</sup>96, JD67, Klo87, Kue90, KG63, Kum65, KM74, Lin67, McG92, MMT60, Mid62, Mid65, Mid66, MW67, Mid70b, NM65, Ove70, PGS<sup>+</sup>98, PDLM67, RSSS82, RK66, Ree59, SLK<sup>+</sup>97, Seg62, SBdF64, SSTF77, TY64, APOI92, AR98, BFH<sup>+</sup>93, CNS<sup>+</sup>99, DPW00, DM01, Fuj92, HBC<sup>+</sup>99, HRS<sup>+</sup>95, KC89, KFYU92, Kuo92, KOT99, LL98, LS72, MFPJ71, SHSY90, SHSY00, SGS<sup>+</sup>09, TSH92, TCCH98, Tho94, TTI98, TKK<sup>+</sup>92, WL73, WWA<sup>+</sup>98, You90, van89]. **Thin-Film** [HM60, HCBA82, JMM<sup>+</sup>96, PGS<sup>+</sup>98, SLK<sup>+</sup>97, AR98, DM01, Fuj92, HRS<sup>+</sup>95, KC89, SGS<sup>+</sup>09, Tho94, TKK<sup>+</sup>92, van89]. **Thin-Film-Transistor** [McG92, CPTW98,

How92, APOI92, KFYU92, Kuo92, KOT99, LL98, TCCH98, TTI98, WWA+98].  
**thin-film-transistor-driven** [TSH92].  
**Thin-film-transistor/liquid** [How92, APOI92]. **Thin-Layer** [Kue90].  
**thin-line** [BFH+93]. **Things** [JS14].  
**Thinking** [EMM+18]. **Thomas** [TFJ+96, WH94]. **THOR** [TWX+10].  
**thoughts** [Poh95]. **thousand** [VDD+00].  
**thread** [SKSP06]. **Threat** [WTT+14, HJW+16]. **threats** [CLH+16].  
**Three** [AW76, BJS80, BMPS91, BRR79, CW85, Cov92, Far83, FHL+82, Gro76, HF78, Kar74, KAD+08, KW83, Sav70, TLS+06, Wym57, vKCD+10, ABG+95, Ano62d, Ano63e, BKB76, BS91, DSW71, MS89, Nef90, Sho04, Sto91, Tu90]. **Three-Beam** [BJS80]. **three-body** [BKB76].  
**Three-Dimensional** [AW76, BRR79, CW85, Far83, Gro76, KW83, Wym57, BMPS91, KAD+08, TLS+06, ABG+95, BS91, MS89, Nef90, Sto91, Tu90].  
**Three-Level** [FHL+82, DSW71].  
**Three-loop** [Cov92]. **Three-Stage** [Kar74].  
**Threshold** [Las63, MG63b, WS75].  
**Thresholding** [WR83, Bar68].  
**Through-silicon** [JGD+08, ATW+08, SAT+08].  
**Through-The-Case** [Keh65].  
**Through-The-Pins** [PW83]. **throughput** [DSRC98, NNMJ01, PGN88]. **Thyratron** [KK59]. **thyristor** [JS72]. **thyristors** [RR69]. **Ti** [HBL62]. **Ti-Mo** [HBL62].  
**tickets** [AAA+17]. **Tiger** [Has98]. **tightly** [MDMN10, PBK+09]. **tile** [HM89]. **Time** [Bar73, BLLS79, BM68, BL86a, DR82, Esa62, GHW70, Gor65, Gri90, HLS81, Her75, Jam81, Laf80, MTW83, Net60, OO81, Ree69, SSL73, SY73, Sko58, Soh76, Thr65, Yet89, AKKJ72, ASR07, Ano71, Bev69, BFRT13, BSN+12, BL86b, CGM+15b, Coo90, Cre81, DSS+92, DL02, EGH+86, FN95, Fro71, FL69, Gra71, GHW+20, HKA+13, Kan15, Kar73, KZP03, KCH+09, LPMDG14, MDR+07, NMH+07, ODL+09, OOL+12, Osb93, PSD+17, Rei69, RR69, RMM03, RHC73, SMC+14, SSB+12].  
**time-dependent** [AKKJ72].  
**Time-Division** [Thr65]. **Time-Domain** [Gor65]. **time-of-day** [DSS+92].  
**Time-optimal** [BM68]. **Time-Resolved** [BLLS79]. **time-series** [BFRT13, OOL+12].  
**Time-Shared** [GHW70, SSL73, Ano71, Rei69].  
**Time-Sharing** [Bar73, Cre81, FN95, FL69, Gra71]. **timed** [HBL+99, HBL+02]. **TIMEDIAG** [Wil97].  
**TIMEDIAG/GENRAND** [Wil97].  
**timers** [Mat98]. **Times** [Cha75a, FS88, Her65, Str81, BGK62, SS82].  
**Timing** [HSC82, TAR84, BS95, BHD+05, MTB+90].  
**Tin** [KDBT60, KT84, SM62]. **TiO** [KBS+99, CKG+99]. **Tips** [Fin86, Dus71, VDD+00]. **Tires** [SKK14].  
**tissue** [PSP06]. **tissue-patterning** [PSP06].  
**Titanate** [Cam57, DH57, Pen69]. **Titanium** [CKG+99, TDM+87]. **TI** [BPL+89].  
**Tl-Ca-Ba-Cu-O** [BPL+89]. **TOBEY** [Bla94]. **Today** [KGCS85]. **toggle** [Wor06].  
**Token** [BS85, Str83, OCB+90].  
**Token-Access** [Str83]. **Token-Passing** [BS85]. **token-ring** [OCB+90]. **Tolerance** [PL83, CTS+92, NBF+16, Sch96a, SG99, Sta89b, Sta89c, TSC91]. **tolerances** [SJ89].  
**tolerancing** [JS89, SJ89]. **Tolerant** [Aic84, Com83, BKRF02, Cov92, SHL+20, CR84].  
**Tomographic** [PL81]. **Tone** [MN67a, HHSW01]. **Tool** [Elm84, ABL+84, ACM01, Bal91, BDS+97, GHP+93, Jee58, Osb93, PS91, SLC+97, SPS+06, TWX+10].  
**toolkit** [BDH+19, KKL+14, MD12b]. **Tools** [KGCS85, IBM13c, BH11, BDHH+09, DBB+02, MLWC20, MSW+05, Moi91, Tan08]. **Top** [Tod78b, Man90, SON+91].  
**TOP-1** [SON+91]. **top-down** [Man90].  
**Topic** [Ano93h]. **Topical** [MT84].  
**topography** [HS71, Seg68]. **Topological** [Gun69, NS92, VLKW14, Aas70, RW59].

**topologies** [ST89]. **Topology** [Kuh60, Dic91, MWL<sup>+</sup>14]. **Torque** [Abb66]. **Torsional** [Pet80, Sat63]. **torus** [ABC<sup>+</sup>05, Adl87]. **TOSCA** [BBG<sup>+</sup>14]. **total** [Rab69]. **Touchless** [SIKdL16]. **Toxicity** [RL70]. **Trace** [Hei94, BGW91, SLC<sup>+</sup>97, BCCK92]. **Trace-directed** [Hei94]. **trace-driven** [BGW91]. **traceability** [LZZ<sup>+</sup>16]. **Traces** [FR60, APRS16, HHR99]. **Tracing** [BDHH<sup>+</sup>09, WNBP91]. **Track** [Hoa61, KM82, Hoa00]. **Track-Density** [Hoa61, Hoa00]. **tracking** [RSS<sup>+</sup>15, RMR94]. **Tradeoff** [BDMW81]. **traditional** [HG14, SNP06]. **Traffic** [Cha67, HF91, Kar74, BSY<sup>+</sup>15, OIM<sup>+</sup>13]. **training** [CGM<sup>+</sup>15a, CFP20]. **Trajectories** [BJ67, Lev66, Tay79, CPvR00]. **Transaction** [Woo87, OYHSB14]. **Transactional** [LGW<sup>+</sup>15, OWG<sup>+</sup>13]. **Transactions** [AGH<sup>+</sup>16]. **transceivers** [TJHK03]. **transcription** [HKD06]. **Transducer** [Abb66, BCRT74, Bra75, TT75]. **Transfer** [CH74, CS85, FB78, Gom86, Gra80, Hud63, Kau81, Lik88, PC85, Rem67, Roe66, Sch62a, SS78, Sea57, Twa85, Bou97, DH69, DG93, HCL72, IMC<sup>+</sup>10, Led71, MKJM93, PMS<sup>+</sup>08, RK72, Sun06, Var89]. **Transform** [AC86, Bla79, Dan66, Har71, Kri82, Mas97, Bra94, Kri82]. **Transformation** [BNS15, FL76, MLWC20, NNF15, SR63, CRH12, CDS<sup>+</sup>19, HMP<sup>+</sup>11, KRTN<sup>+</sup>12, MBB<sup>+</sup>20, OB09, Sha12, UDP<sup>+</sup>12, Vay12, WBT<sup>+</sup>10, San12]. **Transformations** [DJBT81, DDDKW12, Ros00, Sar97]. **Transformer** [TK64]. **Transforming** [GAB<sup>+</sup>08, SHM<sup>+</sup>12, WAB<sup>+</sup>09]. **Transforms** [AS87, Co082, Nus76b, Nus77, Lew75, Nus76a, NQ78]. **Transient** [AGAP63, BH82, Gru79, HS61, vS57, BGL66, SG71]. **Transients** [Loy79]. **Transistor** [CW85, Cre58, Dun57b, FFH64, Ken61a, KO69b, KO70, KGCS85, LV67, MM75a, McG92, Rut57, Str59, Wal57, vS57, BGL66, CPTW98, DMR<sup>+</sup>81, FAFL91, Fuj92, GAOD71, HRG80, HS71, KM73, KFYU92, Kuo92, KOT99, LL98, SLYR72, TSH92, TCCH98, TTI98, Won02, WWA<sup>+</sup>98, ZCK71]. **transistor/liquid** [APOI92, How92]. **Transistors** [DS70, Gau77b, Gau77a, Gil79, KMO64, Mag73, Rei66, RS59b, Wol70, CDS73, CDS00, Dha68, DM01, FLB<sup>+</sup>19, GOVC71, HF90, MTH71, TWF90]. **Transition** [AW62, AOR62, BBT60, BBG60, BFT79, Dui59, Fre70, KMB<sup>+</sup>08, Ree59, RM70, Tri58, TT74, SN98]. **transition-metal** [SN98]. **Transition-metal-oxide-based** [KMB<sup>+</sup>08]. **Transitions** [Cle81, DH57, LeB62, SM62, Whi70, MP81, VDP94]. **Translating** [MS89]. **Translation** [CERS76, KLS66]. **translational** [EKR87]. **Translator** [DO86]. **transliteration** [AFCB94]. **Transmission** [Ber64, CDH64, Cro70, God74, Gru79, GC81, GM63, HO75b, Hop59, Hop61, Kob70, Mul67, RP70, Roe66, SFH65, WF83, WC75, Bra68, CN71, DKR<sup>+</sup>90, DSRC98, HRW69, Hip70, Ho73, HS71, Irv91, Lan60, Mel60b, MHK<sup>+</sup>11, PR71, RWP16, Ros00, Tho70, TTI98, Wee72]. **Transmission-Line** [Ber64, Wee72]. **Transmitter** [Sha58b]. **Transmitters** [CN74]. **Transparent** [DO74, PC64]. **transparently** [Irv01]. **Transport** [BS64, FWW88, FP83, Fre70, HK64, Kle64, MNR86, NBRB70, Pen88, Pri73, Sch62a, Tof88, WCB<sup>+</sup>86, Von70, AF99, ALH95, BZ06b, CP72, KLE71, LG88, LDSA02, RT99]. **transportation** [BSY<sup>+</sup>15, BCE<sup>+</sup>07]. **Transverse** [Mag73]. **Transversely** [Che64, CS65a]. **Trap** [Boe69]. **Trap-Controlled** [Boe69]. **Trapped** [Cro57, DYHS78, RRB<sup>+</sup>01]. **Trapped-Flux** [Cro57]. **trapping** [Shi73]. **Traps** [YDHS78, RG90]. **trauma** [FSG<sup>+</sup>73]. **Travel** [DWGC85]. **Traveling** [HHJW84, Ray69]. **traveling-salesman** [Ray69]. **Travelling** [Gun66b]. **Traversal** [BL86a, BL86b]. **Treasury** [HS14]. **treating**

[Lei61]. **Treatment**  
 [Jon60, MD12a, OMA<sup>+</sup>96]. **Tree**  
 [HY84, CHG04, LT95]. **Trees**  
 [Luk74, Rio60, Rot60a, Ris73, RW59, Rot60b].  
**Trefftz** [BS72]. **Trends**  
 [GGK<sup>+</sup>13, LAG<sup>+</sup>84]. **Tri** [Tri58].  
**Tri-Glycine** [Tri58]. **triangulation**  
 [Kep75]. **triazine** [GA88]. **trigonometric**  
 [Fil70]. **Trihydride** [Pan78]. **Trimmed**  
 [Far87]. **Trimmed-Surface** [Far87].  
**triplate** [HRW69]. **Triple**  
 [Hal60, LV62, CJM96]. **Triple-Modular**  
 [LV62]. **triplet** [Hun71]. **trouble** [RWB<sup>+</sup>10].  
**Troubleshooting** [CFP20, MWX<sup>+</sup>17].  
**True** [LBB<sup>+</sup>13, AKE<sup>+</sup>92]. **TrueNorth**  
 [MYKK<sup>+</sup>17]. **trust** [ABH<sup>+</sup>19]. **trustable**  
 [SR19]. **Trusted** [BCG<sup>+</sup>09]. **TTL**  
 [DTTK95]. **TTL-compatible** [DTTK95].  
**Tube** [LD74]. **Tubes** [HMR82]. **tunable**  
 [HDK<sup>+</sup>11]. **Tungstate** [MVB62]. **Tungsten**  
 [KEJ87, PCDW78, VWJK11, YAJ90].  
**Tuning** [Log70, SHCS05, AAB<sup>+</sup>10]. **Tunnel**  
 [AFR62, BKM80a, BMWL80, CSE66,  
 CPZ63, DPR86, Esa62, Gef88, IBC64, Lik88,  
 Mar60b, MT64, NM62, Rut64, Ano06c,  
 BC00, GP06a, JWSP06, Mos61].  
**Tunnel-Diode** [AFR62].  
**Tunnel-Diode-Coupled** [MT64].  
**Tunnel-Distance** [DPR86]. **Tunneling**  
 [AMGC86, APS86, Ano86c, BMC86, BL86a,  
 But88a, CW86, CP86, DHTW86, EBd<sup>+</sup>86,  
 FF86, Fin86, FS88, Gar86, GH86, Gom86,  
 Han86, HBR85, KJ86, KWB88, Lan86,  
 Poh86, PR59b, SB86, SSN<sup>+</sup>62, THv70,  
 WKB<sup>+</sup>86, vv86b, BNT86, BR00, BL86b,  
 Dür94, HBR86, LBT99, Sto91]. **tunnelling**  
 [ZG71]. **Tunnels** [Mar79]. **Turán** [MR72].  
**turbulence** [BS91, FKL<sup>+</sup>08]. **turnaround**  
 [ATW06]. **Tutorial** [Str83]. **tutoring**  
 [SN15]. **TV** [CIJ<sup>+</sup>10]. **Twisted**  
 [HL83, LJ92]. **Twisted-Pair** [HL83].  
**Twitter** [MNWH20, SPB<sup>+</sup>17, VMAB18].  
**Two** [Ano60h, BBH<sup>+</sup>67, BH79, Cal81,  
 CA84, FL59, GON<sup>+</sup>06, Gar64, Gau77a,  
 GHP<sup>+</sup>85, Hau67, HA58, KO69b, KO70,  
 Le 62, LC80, Loy79, OHM<sup>+</sup>85, Pat89, RS67,  
 Rut57, She59a, Sta67, TSC91, WRG99,  
 Zwe65, Ano66g, Ano66h, Ano66i, Ano67j,  
 Ano67k, Ano67l, Ano67m, Boh73, BS91,  
 Fra89, Gla97, Her72, KM68, LKY80,  
 LGBV17, Nef90, RS66, Sav69, Sta73, Van97].  
**Two-Collector** [Rut57]. **two-cycle** [Van97].  
**Two-Degree-of-Freedom** [Hau67].  
**Two-Dimensional**  
 [Gau77a, GHP<sup>+</sup>85, KO69b, KO70, LC80,  
 OHM<sup>+</sup>85, Zwe65, BS91, Her72, KM68].  
**Two-level** [GON<sup>+</sup>06, Pat89].  
**Two-Parameter** [FL59, Sta73]. **Two-pass**  
 [WRG99]. **two-phased** [LGBV17].  
**Two-Photon** [BH79, Gar64, Loy79].  
**Two-Point** [RS67, RS66]. **Two-Queue**  
 [Cal81]. **two-seller** [Sav69]. **two-step**  
 [Gla97]. **two-user** [LKY80]. **Two-Way**  
 [She59a]. **Type** [CEHL78, CW91, DWGC85,  
 FP69, GGRW91, Haj91, KO69b, Kuz70,  
 NHH91, PL79, Sar91b, SV91, TSC91,  
 CTS<sup>+</sup>92, CH82, FA70, GSG<sup>+</sup>90, HMM82,  
 MN67b, MKW<sup>+</sup>12, Vur70, WS72].  
**type-piece** [WS72]. **typed** [Bei92]. **Types**  
 [Cas60]. **Typewriter**  
 [ABB<sup>+</sup>85, BR81, May85]. **Typing**  
 [MKW<sup>+</sup>12].  
**U** [KMC<sup>+</sup>11]. **U-Compare** [KMC<sup>+</sup>11].  
**U.S.** [BHP17]. **UHV** [CW86]. **ULSI**  
 [AHW<sup>+</sup>99, CNS<sup>+</sup>99]. **Ultra** [ZG71, RH90].  
**ultra-high-frequency** [RH90].  
**Ultra-high-speed** [ZG71]. **Ultrafast**  
 [JWL82]. **ultrahigh**  
 [Mey90, Mey00a, PSA<sup>+</sup>08].  
**ultrahigh-density** [PSA<sup>+</sup>08].  
**ultrahigh-vacuum** [Mey90].  
**ultrahigh-vacuum/chemical** [Mey90].  
**Ultralow** [HZB<sup>+</sup>06, MAB<sup>+</sup>03, GAOD71].  
**ultralow-capacitance** [GAOD71].  
**Ultralow-power** [MAB<sup>+</sup>03].  
**Ultralow-voltage** [HZB<sup>+</sup>06]. **Ultrasmall**  
 [Lik88]. **Ultrasonic**

[Mor62, PL81, CMR72, Dus71, Far82].  
**Ultrathin** [Buc99a, Luc99, RF78, ABC<sup>+</sup>99a, GLG<sup>+</sup>99, LBT99, MFS<sup>+</sup>11]. **Umpire** [BMD<sup>+</sup>20]. **Unbounded** [Low74].  
**unbuffered** [HF91]. **uncertainty** [KKL<sup>+</sup>14, WAC<sup>+</sup>16]. **Uncovering** [CLH<sup>+</sup>16, HvKI<sup>+</sup>09]. **under-resourced** [GHH<sup>+</sup>17]. **Underdamped** [RVV88].  
**underdetermined** [PPG<sup>+</sup>01].  
**Understanding** [AWK20, Emm97, HCG<sup>+</sup>13, LHS<sup>+</sup>17, LL98, MNWH20, YBF<sup>+</sup>14, FSG<sup>+</sup>73, KAF<sup>+</sup>16, Kit89, PSD<sup>+</sup>17]. **Underwater** [Bei74, HKA<sup>+</sup>13]. **Undetected** [HDBR08, SH57b, SH57c]. **undirected** [Ari69]. **unfolding** [ZEH<sup>+</sup>08]. **Uniaxial** [KG63, Kum65]. **Unification** [BKU88, Bei92]. **Unified** [CAE<sup>+</sup>76, FBG12, KKL<sup>+</sup>14, YSH12, CBD<sup>+</sup>09, MSV14, Nob95b, MBA<sup>+</sup>12].  
**Uniform** [CT76, Gru79, Par60, SHTP11]. **Uninterpreted** [CA84]. **Uninterruptible** [Ste01]. **Unique** [Kum92, CCE<sup>+</sup>20].  
**uniqueness** [Bil72]. **Unit** [FB78, GS82b, OG87, Ser82, WRLA57, AEGP67, BGAJ94, CBB<sup>+</sup>05, EV93, GWS<sup>+</sup>04, HFH94, HM90, JO96, MHR90, SSM97, SK99, Tho70].  
**United** [Irv93]. **Units** [Tom67, ADS72, HSL<sup>+</sup>05, SG94a].  
**universal** [Bla84a, Bla84b]. **universes** [GRS13]. **University** [Wie58, RCH<sup>+</sup>86].  
**UNIX** [KPT<sup>+</sup>02]. **Unstable** [BFT79]. **unstructured** [AAA<sup>+</sup>17]. **unsupervised** [BSRG17]. **unusual** [PL20]. **UP-US** [Kuz70]. **UPC** [Bra80]. **update** [CNSS12].  
**upgrade** [MVI<sup>+</sup>07, PVAK02]. **upon** [HP01]. **upset** [GRH<sup>+</sup>08]. **upsets** [HRC<sup>+</sup>08]. **Urban** [BH11, BMS<sup>+</sup>17, TPTH20]. **URL** [VNT16].  
**usable** [BBK<sup>+</sup>16]. **usage** [CHM<sup>+</sup>16]. **Use** [Bla63, DW58, DB82, FL69, Hor62, Kon69, LV62, Mas97, Oht95, SSL73, Spr61, Swa57, WN92, BO69, BDHH<sup>+</sup>09, CWC95, FKK<sup>+</sup>03, MBF<sup>+</sup>13, MOG<sup>+</sup>19, MS05, Oka69, SPP72, Sha12, CASP91]. **Used** [BBT83, DWW90, ESA02, Gor63, HHSW01, HHA93, ILH03, KLS<sup>+</sup>05, RWM<sup>+</sup>05, Vie86].  
**useful** [PK88]. **usefulness** [KLHW16].  
**User** [CN18, Elm84, LG78, Laf80, ASR07, CJK<sup>+</sup>13, KBJ<sup>+</sup>18, LKY80, Pon17].  
**User-Computer** [LG78, Laf80].  
**User-generated** [CN18, KBJ<sup>+</sup>18].  
**User-Reconfigurable** [Elm84].  
**user-reported** [Pon17]. **users** [AKNR10, HHC<sup>+</sup>18, Kum98]. **Using** [ÅC64, AAF<sup>+</sup>09, BBMR19, Bar80, BBHS84, BHP17, Ber64, BDH83, BCH84, CD78, DG84, FF73, GSVE83, Gha75a, God74, GMS05, HMP<sup>+</sup>11, Hud63, Jel69, Kog57, Kog58b, Kog58a, Kog59, Kra81, LB85, Mar64a, MHR<sup>+</sup>15, MPST66, NGMW57, Nus76b, PLHJ70, RS85, RWC80, Rut59, Sam59, Sam67, Sch80, SS61, SLLP64, SW86, Spr63, Tod78a, Tod78b, Ull65, Voi65, VRA<sup>+</sup>09, YCJ<sup>+</sup>17, Zwe65, vS57, AKB<sup>+</sup>17, AGZ94b, AGZ94c, AEG<sup>+</sup>02, ADG<sup>+</sup>92b, Bag94, BDMN14, BNW99, BKRF02, BSRG17, CLP<sup>+</sup>13b, CDD<sup>+</sup>10, CFP20, CNC<sup>+</sup>08, CNP<sup>+</sup>15, CHG04, DKAC67, DB01, DR93, DAUS91, DMR<sup>+</sup>81, EHLSW01, FKL<sup>+</sup>08, Fla91, Gam72, GAJ<sup>+</sup>16, GHW<sup>+</sup>20, dTGHC92, Gus03, HMOS81, HMO81, HDK<sup>+</sup>11, IS20, JWSP06, KCML13, KLMV19, KWT<sup>+</sup>11, KACS95, LB07, LQRS04, LCL<sup>+</sup>98, MTF<sup>+</sup>95, MYKK<sup>+</sup>17, MHI01, Mat03, MN97, MNWH20, MKW<sup>+</sup>12].  
**using** [MBK<sup>+</sup>15, NFS<sup>+</sup>17, NRA<sup>+</sup>07, Nii95, NSOO98, NBM<sup>+</sup>19, PL20, RRMD17, RG90, RG09, Sam00, SP17, SHCV19, SXW<sup>+</sup>13, SvNH13, TMS98, TYSS19, TAE<sup>+</sup>07, Tib93, Wil97, YBF<sup>+</sup>14, Yas07, YMR14]. **utilities** [SLK<sup>+</sup>16, TCP<sup>+</sup>16]. **utility** [KAF<sup>+</sup>16].  
**utilization** [ADG<sup>+</sup>05, VLB<sup>+</sup>09]. **utilizing** [Vin81]. **UV** [Lin76].  
**V** [CFG64, Fuj92, Gun64, HBB99, KSF90].  
**V256** [JZ91, SWB<sup>+</sup>91]. **Vacuum** [Ahn66, Cas60, CP86, Ham78, O'H78, AF68, Mey00a]. **Vacuum-Deposited**

[Ahn66, O'H78, AF68]. **vacuum/chemical** [Mey90, Mey00a]. **Validation** [ST75, WZ78, Wes78, CBD+09, DSW71, SBP+03, IBM13c, ZHP+18]. **Valley** [Adl64]. **Value** [Lom80, Pim76, RS67, BS71b, CP72, Don69, HS11, Mat03, RM09, RS66, RMM03, WCK+07, UDP+12]. **Value-Oriented** [Lom80]. **valued** [Di 88, GA68]. **Values** [Lom76, NBM+19, OD17]. **Valve** [SW98, SST+98, SS00, TFL+98]. **valves** [CU98, RDD+98]. **VAMFO** [PW68]. **Vapor** [AO60, BC60b, BC60a, BC60c, GBC65, GM60, IM60, KEJ87, LD74, Mar60a, Mar60b, OMAW60, Bea90, CNC+95, CNS+99, GMP90, Mey90, Mey00a, Ngu99, Tis90, YAJ90]. **Vapor-Grown** [AO60, BC60b, BC60a, BC60c, IM60, OMAW60]. **Vapor-Phase** [GBC65, Tis90]. **vapour** [SR71]. **variability** [BFG+06]. **Variable** [AO60, FLCB85, Ins77, NW64, BGK62, Gus97, MRG99, OCR+98, PW68, WRG99]. **variable-bit-rate** [MRG99, WRG99]. **variable-reluctance** [OCR+98]. **Variables** [BJMO80, Lat73]. **Variance** [Hei80]. **Variation** [AW62, BBT60, Bre60, FB78, Lan88, Lan57, Lan96, Lan00b, WN92]. **Variational** [Hoh78]. **Variations** [Sta85b, Twa77]. **Various** [Fle58, LL83]. **Vatican** [MBC+96]. **vault** [SHL07]. **VCL** [VRA+09]. **VCSELS** [KACS95]. **VDL** [Luc81]. **Vector** [ACG+86, MNR86, OG87, SV91, ACG+87, Dic91, Gsc16, RSS91, SdS89, Tol97, AC86, GRSW86, RV89]. **vector-scalar** [Gsc16]. **Vectorgrams** [Pic87]. **Vectorization** [LKFU05, JN82]. **vectorized** [WNB91]. **vectorizing** [SK86]. **Vectors** [OG87, CW58]. **vehicle** [DXZS13]. **vehicles** [KMO+14, MMJ69]. **Velocities** [Mid66]. **Velocity** [Adl64, Gun69, PW67, Aas70]. **Venice** [Gam72, SCR78]. **VEPC** [GCPVG85]. **Verification** [CLOR87, CM98, DB69, HL77, Lew80, Lew83, MM82, Mon82a, WAB+05, BGW+04, BS95, GMS05, GBRJ05, HAMC+04, KKS02, KMA+20, KKM02, KWH+12, KBG+09, KAB+12, KSL95, LRH+02, RT99, SBF+97, SHR+09, SRL+11, SLA+15, SAA+18, Sou96, TAE+07, TFL82, Van97, VMG99, VLP+05, Wil97, WMH+97]. **verifying** [SNA02]. **Verity** [KSL95]. **Versatile** [DHSC64, DHSC00, FGC92, IJV19]. **Version** [Aus90, CMR+90, Kru84]. **versus** [HG14, Mat03, RS94, RC17, Swa60]. **Vertical** [Ost84]. **Vertically** [OKH+02]. **Very** [KJMS67, Mer88, Kum98, Pat73]. **Very-High-Speed** [KJMS67]. **Very-Large-Size-Dictionary** [Mer88]. **Vestigial** [CDH64]. **Vestigial-Sideband** [CDH64]. **VHF** [CCM65]. **VI** [CFG64]. **via** [BMF+16, CJH+15, CGLL93, GLCW93, GJ00, KMH82, MBT19, Nus76a, PSD+17, WNB91]. **Vias** [LHW81, ATW+08, JGD+08, SAT+08]. **Vibrating** [BP75, Hau67, Rat68]. **vibration** [AL76]. **Vice** [Don00, Pic18, San12, Age04, Age05, Age08, Bal05, Che06, Che08, DR08, Des02, Des04, Mey03, Nun09, Pea09, Pri07, PS09, Pul07, Viv14]. **Vicinity** [FK62, Ku63, RE71]. **Victim** [FLMKS06]. **Victor** [SWB+91, JZ91]. **Video** [Bar68, BYY98, Kum98, BNW99, GYK99, MRG99, SA98, SCC+15, WLKS98]. **Video-server** [Kum98, SA98]. **View** [AMG+87, Coh87, CRDI07, LR97, MBK+15, Riv87]. **Virtual** [Bar75, CFL73, Dub72, Gha75b, Gum83, Kis03, LQRS04, AAM+07, BCG+09, Hat72, JWZ+09, KKM02, SSMGD10, Tue76, VDO14, JS89]. **Virtual-Memory** [Bar75]. **virtualization** [AAF+09, AAB+05, AA18, ABB+15, GKT17, MBA+12, SAB+07]. **virtualized** [BGS13]. **Viscoelastic** [Bau72, BP88]. **visibility** [BCH+16]. **vision** [AKG+19, Kis96, ODL+09]. **Visual** [ATC+15, BSY+15, BL15, Far91, FAFL91, LSW13, BHW+17, GSC12, Kan15, KMGD19, SS15]. **Visualization**

[DeM91, OOL<sup>+12</sup>, PMW06, WNBP91, Bal91, BBPS91, BMPS91, DAUS91, DRSM15, EWBR09, KN91a, KN91b, Moi91, MNWH20, PB89, PWFB91, Sto91, TG91, YBF<sup>+14</sup>]. **visualizations** [EEM15]. **Visualizing** [SZ91, WT91, YR91]. **visually** [AKNR10]. **Viterbi** [Nob95b]. **VLIW** [MME<sup>+97</sup>]. **VLSI** [AEZ84, ATL<sup>+88</sup>, BFH<sup>+93</sup>, CT82, CB85, Dan81, DeM91, ESHM95, Elm84, FKOP90, FHL<sup>+82</sup>, GRS87, GT80, GPL<sup>+92</sup>, HW87, LKL<sup>+81</sup>, MCAW95, ML82, MM82, MTW83, RBB<sup>+02</sup>, RH90, Sar91b, SG95, Sec95, SP90, SMD80, SCM<sup>+82</sup>, Sta89b, Sta89c, Sta90, SGC<sup>+87</sup>, TFL82, Tro80, VTMB<sup>+90</sup>]. **VM** [Bar78, Cre81]. **VM/370** [Bar78, Cre81]. **VMX** [EWT<sup>+07</sup>]. **Vocabulary** [DFM<sup>+88</sup>]. **vocational** [CGM<sup>+15a</sup>]. **Vocoder** [Rot66b]. **Voice** [GCPVG85, KLS66, Cor69, Nob95b]. **voice-band** [Nob95b]. **Voice-Excited** [GCPVG85]. **voiding** [HRS<sup>+95</sup>]. **VoIP** [ZCLS10]. **Vol** [MHI98, SW98]. **volcanic** [PB89]. **vols** [Ano93c]. **volt** [BBH<sup>+95</sup>, SWC<sup>+95</sup>]. **Voltage** [Gau77a, Gef88, MPD86, ON60, Rei66, SS78, WS75, BBH<sup>+95</sup>, HZB<sup>+06</sup>, NHKI03]. **Volume** [Ano92a, Ano92h, Ano94a, Ano94b, Ano94t, Ano94u, Ano95a, Ano95l, Ano97j, Ano98a, Ano98l, Ano99a, Ano99i, Ano02a, Ano02b, Ano03a, Ano03b, Ano05a, Ano05d, Ano06a, Ano06d, Ano07a, Ano07b, Ano08a, Ano08c, KN91b, SAT<sup>+08</sup>, Ano97a, Ano00a, Ano00j, Ano01a, Ano01o]. **voluntary** [LRNS17]. **Voronoi** [MS87, SN87]. **vs** [DG93]. **vulnerabilities** [GDB16].

**W** [FvGGM90, Sta75, Win78]. **Wafer** [KYY<sup>+08</sup>, Sta85b, GBB<sup>+05b</sup>]. **Wafer-level** [KYY<sup>+08</sup>]. **Wafers** [PH79, Sta87, Seg68]. **walk** [LT95, SM71]. **Wall** [DKAC67, Mid66, MW67, PW67, Slo66]. **Walls** [Fre79, MMT60]. **Walsh** [Hor76]. **Wang** [Ber76a, Wie76]. **WARM** [BR82]. **Warning** [Tod78b]. **washout** [AKKJ72]. **Waste** [VGC79, Fre72]. **Water** [LD74, BBMP92, BRB92, BR09b, DGG<sup>+92</sup>, ESM16, KEKP20, SPP72]. **water-cooled** [BBMP92, BRB92, DGG<sup>+92</sup>]. **water-soluble** [SPP72]. **Watson** [TFJ<sup>+96</sup>, WH94, ESI<sup>+12</sup>, Fer12, LPM<sup>+12</sup>, Lew12, MIL<sup>+18</sup>, MMB12, TGL<sup>+12</sup>, VPV<sup>+19</sup>]. **Wave** [Bay69, BT84, CS65b, GS82a, GM63, Mir60, WS64, HM89, Mir61, Tur69]. **Waveform** [JZ91]. **Waveform-relaxation** [JZ91]. **Waveforms** [Gaz78]. **wavefront** [LHJ69]. **Wavefunctions** [MY67b]. **waveguide** [BGO03]. **Wavelength** [HHM66, PSH80, RFK<sup>+97</sup>]. **Waves** [MM64, Lan60]. **Way** [She59a]. **WCDMA** [RFB<sup>+03</sup>]. **Wear** [BS71a, BS78, Bay78, CEHL78, Pol78, Ros78]. **wearable** [WSCK17]. **Weather** [Low78, TPC<sup>+13</sup>, TCP<sup>+16</sup>, TPTH20]. **weather-driven** [TPTH20]. **Weaver** [KRD<sup>+14</sup>]. **Web** [AKNR10, BBD<sup>+98</sup>, HSS<sup>+10</sup>, KFH<sup>+06</sup>, Oha10, VTC09]. **Web-delivered** [HSS<sup>+10</sup>]. **Web-enabled** [BBD<sup>+98</sup>]. **Wedekind** [Ber76a, Wie76]. **Weight** [Hsi70, Ris73]. **Weighted** [Smu57, WLEF89]. **welding** [CMR72]. **wellness** [CPCC18]. **Western** [Sti79]. **Wet** [LV94]. **Wet-process** [LV94]. **WF** [YAJ90]. **Which** [Lew83, Ost84, Wyn64]. **while** [MWL<sup>+14</sup>, RMM03]. **White** [VG74, LS72]. **whole** [LQRS04]. **Whose** [Knu90]. **Wide** [MPD86, Gra69, KSB07, RBB<sup>+11</sup>]. **Wide-Range** [MPD86, Gra69]. **wideband** [PR71]. **Widely** [Bra72a, FW67]. **Width** [BKM80b, PL83]. **Widths** [FR60, SAL63]. **Wildfire** [NG17]. **wildland** [PKXX07]. **wildlife** [FNS<sup>+17</sup>]. **WiMAX** [CDD<sup>+10</sup>]. **window** [Bar86]. **Wire** [Don81, HL83, Lin84, MW80b, CH06, FXB<sup>+10</sup>, HHSR96]. **wire-speed** [FXB<sup>+10</sup>]. **Wireability** [KMH82]. **wired** [Mey00b]. **Wireless** [LSZ<sup>+10</sup>, CS03, JGD<sup>+08</sup>, KBC<sup>+03</sup>, Mey00b, WP11]. **Wires** [Pre66]. **Wiring** [CB85, Don80, Elm84, FHL<sup>+82</sup>, KMH82,



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- X** [Arc93, BM93, COC61, CNH73, CHL<sup>+</sup>11, Col69b, GHP<sup>+</sup>93, GC93, HS71, Hua79, JS00, KKS<sup>+</sup>73, KWT<sup>+</sup>11, LL93, RSL<sup>+</sup>70, RF78, SF93, See93, Seg68, SMVK90, SRO93, SS93, Spi93, SN98, SA00, War93, WSK<sup>+</sup>93, Wil93]. **X-PEEM** [CHL<sup>+</sup>11]. **X-ray** [Arc93, GHP<sup>+</sup>93, GC93, JS00, LL93, SF93, See93, SMVK90, SRO93, SS93, SA00, WSK<sup>+</sup>93, Wil93, COC61, Hua79, War93, BM93, CNH73, Col69b, HS71, KWT<sup>+</sup>11, RF78, Seg68, Spi93, SN98]. **X-Y** [KKS<sup>+</sup>73, RSL<sup>+</sup>70]. **X.21** [WZ78]. **Xe** [BKB76]. **XIVE** [AA18]. **XL** [Sar97]. **XMCD** [YTF<sup>+</sup>11].
- YBa** [BH89, CDM89, MRH89, vHv<sup>+</sup>89]. **YCu** [GSG<sup>+</sup>90]. **years** [BS03, Wil93]. **Yevick** [HBW70]. **Yield** [Mei83, SMD80, Sta84b, Sta86, CHL<sup>+</sup>11, Sta76, SCM<sup>+</sup>82, Sta89a, Sta00]. **Yields** [Doo83]. **YIG** [GDR70]. **YODA** [GBS<sup>+</sup>87]. **York** [SHC<sup>+</sup>72]. **Yorktown** [DO86]. **Young** [KRC68]. **Young-Laplace** [KRC68]. **youth** [Y CJ<sup>+</sup>17].
- Z** [PS09, BBC<sup>+</sup>12a, CAC<sup>+</sup>13, Pri07, Sur15, BMM<sup>+</sup>20, CHJ<sup>+</sup>18, JSM<sup>+</sup>18, Mau18, Mau20, MBB<sup>+</sup>20, RBL<sup>+</sup>18, VCM<sup>+</sup>20, vBBE<sup>+</sup>02, PERW02, SKS<sup>+</sup>20, WMK<sup>+</sup>07, WCK<sup>+</sup>07]. **z/Architecture** [PERW02]. **z/CECSIM** [vBBE<sup>+</sup>02]. **z/OS** [SKS<sup>+</sup>20]. **z10** [ABG<sup>+</sup>09, BAV<sup>+</sup>09, CCD<sup>+</sup>09, CAD<sup>+</sup>09, HTH<sup>+</sup>09, JWS<sup>+</sup>09, KKB<sup>+</sup>09b, KBG<sup>+</sup>09, MWS09, MC09, SWF<sup>+</sup>09, SHR<sup>+</sup>09, SKC09, SBDT<sup>+</sup>09, TBB<sup>+</sup>09, TBS09, WHK<sup>+</sup>09]. **z13** [ACD<sup>+</sup>15, ABB<sup>+</sup>15, BHH<sup>+</sup>15, CCC<sup>+</sup>15, CAK<sup>+</sup>15, CJB<sup>+</sup>15, KDG15, Kos15, MCG<sup>+</sup>15, SKP<sup>+</sup>15, SLJ<sup>+</sup>15, TBG<sup>+</sup>15, TCK<sup>+</sup>15, WMB<sup>+</sup>15, WBW<sup>+</sup>15, WLB<sup>+</sup>15]. **z14** [SKE<sup>+</sup>18, BAB<sup>+</sup>18, BWB<sup>+</sup>18, BCS<sup>+</sup>18, EMM<sup>+</sup>18, Eic18, JSR<sup>+</sup>18, KDT18, MBB<sup>+</sup>18, MDN<sup>+</sup>18, WHC<sup>+</sup>18, WBS<sup>+</sup>18, ZDB<sup>+</sup>18]. **z15** [Ano20e, BWB<sup>+</sup>20, BBB<sup>+</sup>20, KMA<sup>+</sup>20, KTD20, SRJ<sup>+</sup>20, SKS<sup>+</sup>20, SLP<sup>+</sup>20, WLS<sup>+</sup>20, WMK20]. **z196** [DEH<sup>+</sup>12, SBC<sup>+</sup>12]. **z9** [RFC<sup>+</sup>07, ADH<sup>+</sup>07, AHM<sup>+</sup>07, BCF<sup>+</sup>07, DDZ<sup>+</sup>07, HDW<sup>+</sup>07, MDR<sup>+</sup>07, OHK<sup>+</sup>07, PSW<sup>+</sup>07, TAE<sup>+</sup>07, ZST<sup>+</sup>07]. **z900** [AFM<sup>+</sup>02, BEK<sup>+</sup>02, BHK<sup>+</sup>02, vBBE<sup>+</sup>02, CCW<sup>+</sup>02, GE02, HPW<sup>+</sup>02, HBL<sup>+</sup>02, KKS02, KKM02, PVAK02, SCS<sup>+</sup>02, SNA02, SAB<sup>+</sup>02, SBC<sup>+</sup>02, VWE02]. **z990** [CBB<sup>+</sup>04, AEH<sup>+</sup>04, BGW<sup>+</sup>04, FCS<sup>+</sup>04, GWS<sup>+</sup>04, GKMP04, KBF<sup>+</sup>04, PBC<sup>+</sup>04, SGK04, SPM04, SvBC<sup>+</sup>04, WBH<sup>+</sup>04]. **zAAPs** [WCK<sup>+</sup>07]. **Zachman** [RD12]. **zBX** [VOW<sup>+</sup>12]. **zEnterprise** [BBC<sup>+</sup>12b, GCS<sup>+</sup>12, GMS<sup>+</sup>12, KWH<sup>+</sup>12, YSH12, ABB<sup>+</sup>12a, ABB<sup>+</sup>12b, HW12, KAB<sup>+</sup>12, MLMP<sup>+</sup>12]. **Zephyr** [AKE<sup>+</sup>92]. **Zero** [Lan63, MTW83,

Pat75, Pet77, BSRM09, HM90]. **zero-emission** [BSRM09]. **Zero-Modulation** [Pat75]. **Zero-Time** [MTW83]. **zHyper-Link** [CHJ<sup>+</sup>18]. **Zigzag** [Fre79]. **zIIPs** [WCK<sup>+</sup>07]. **Zn** [CCD57, Tit63]. **ZnTe** [MC68]. **Zr** [HBL62]. **zSeries** [ABE<sup>+</sup>02, BBF<sup>+</sup>04, BEE<sup>+</sup>02, HF04, WYTO04].

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1. Table 5 (page 124): [Swa59]  
     insert `k <-- 0` after assertion, and also delete `k <-- 0` from Table 6.
2. Table 9 (page 125):  
     for `-1:USER!("")`;  
     substitute `-1:USER!("0")`;  
     and delete the comment.
3. Table 10 (page 125):  
     for `fill(-k, "0")`  
     substitute `fill(-k-1, "0")` [Swa10]

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