

# A Complete Bibliography of *The Bell System Technical Journal*, 1970–1979

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## Title word cross-reference

**1978** [Ano78a]. **1A**  
[AOR76, ABG<sup>+</sup>77, BCKM70, BCE<sup>+</sup>77,  
BDG<sup>+</sup>77, BDN<sup>+</sup>77, CFG<sup>+</sup>77, DL76,  
DKP<sup>+</sup>70, GAW<sup>+</sup>76, GBN<sup>+</sup>76, HW76,  
HMSV77, KLS76, Kle76, KU76, Sta77].

**2** [Bro71a]. **2.6-Kilometer** [Sem71]. **20-**  
[Tur75]. **250-Element** [TKK73]. **28-GHz**  
[ACH<sup>+</sup>78, Cox78]. **2C** [CSW71].

**3** [ALS71, BCS71, BJL71, BW71, CGL71,  
Die71, DSW71, Fen71, Giu71, HJ71, JP71,  
KS71, SW71a, SW71b]. **3-Phase** [Seq74].  
**3.5X** [PS70]. **30-GHz** [Sem79, Tur75].  
**302A** [JPS<sup>+</sup>78]. **39A** [FP74].

**4** [ALM74, CT79]. **4-GHz** [KS78]. **45-Mb**  
[MSW78]. **45-Mb/s** [MSW78]. **48** [Ano70].

**1** [Hey75, Van75b]. **1-Watt** [MG75]. **1.4X**  
[PS70]. **10-W** [TG76]. **100-GHz** [Sem77].  
**11-GHz** [HGLM77, Lin77a, Osb77]. **12**  
[Aca79]. **12-GHz** [Rus78]. **12.4-GHz**  
[EKN76]. **12/14** [Aca79]. **14** [Aca79].  
**15.3-GHz** [Pen70]. **18-GHz**  
[Osb71, SBR78a]. **19-** [ACH<sup>+</sup>78, Cox78].  
**19-GHz** [ACG78, AC78]. **1972** [ALM74].

**01** [CM77].  $a_n$  [Ric73b].  $B$  [Mes72].  $\mu$   
[ACG79].  $\pm 1$  [Ric73b].  $\sum a_n/n$  [Ric73b].

**-Law** [ACG79].

**0.9-** [EKN76].

49 [Ano70k, Ano71k]. **4A** [ALS71, CFMS78]. **Administering** [CGHW74]. **Administration** [BZ74, BS78, Fre78, GLW74, GHJ77, GHRS77, MOR<sup>+</sup>77, Mor78b, Sna78]. **Administrative** [CFG<sup>+</sup>77]. **ADPCM** [ACG79, RSR74]. **Advanced** [AFS79, CHPT79, DPZ79, EFW79, Fis79, FP79, Huf79, Mac79, Tsi79, Wal79, You79]. **Advertisements** [CD79]. **After** [Con72b]. **AGC** [FM79]. **Aging** [Wah77]. **Aid** [Fla79]. **Aided** [HN78, MS75a]. **Aids** [Fra78, O'N71]. **AI** [Dix76]. **Alarm** [Fan76]. **Alerter** [DMK78]. **Algebra** [Aha72a, Aha72b, Aha72d, Mac70]. **Algorithm** [CR73a, Els77, Fal76a, Mue75, NS76, OTW71a, RS75, RSR74]. **Algorithmic** [CCR76]. **Algorithms** [Kau77]. **Alignment** [HLL78, JZ70]. **All-Glass** [BS75a]. **All-Pass** [RC76]. **Allocation** [Mar78]. **Alloy** [PB75]. **Almost** [Eis72, Kog76]. **Almost-Coherent** [Eis72]. **Almost-Periodic** [Kog76]. **Along** [Coh71, MSW77]. **Aluminum** [CLB75]. **AM** [SSP71]. **Ambient** [Daw72]. **Amplifier** [Apr75, BW71, Fen71, Goe74b, KS78, MG75, TG76, WC73]. **Amplifiers** [Goe74a, Per73a, Wal77]. **Amplitude** [Bul71, RC76, Rob71]. **Analog** [BHO71, DT71, Rai73, Rao78]. **Analyses** [DL78]. **Analysis** [Aha75, AR79, AS78, BKS71, BS70a, Blu72, Cha72, CM75a, CM75b, Cro78a, Eck78, ES77, Fal76a, FM75, HS71, HHJ71, Hef73, Hol71, KN78, Kru76, Lak79, Las76, Lev78, LRF78, LF72, Liu74, Mar77b, MS75a, Mea75, Mit74, Moo70, Mor70, Peh70, RSA77, San70a, SR71, SRH75, Sch71, Sle78, SS71b, SK74, Tho71a, Wal77, Whi75, Yeh70, Zuc74]. **Analytic** [Log78, Ric73c]. **Analytical** [BB79, Dar70, Nag71, Par78b]. **Analyzers** [EKN76]. **Angle** [Las76, Maz77, Pra76]. **Angle-Modulation** [Pra76]. **Angles** [Hen73b]. **Angular** [CM78]. **Anisotropic** [Kau74, Mar75a, Set71]. **Anniversary**

**A.** [Ano71k, Ano79l]. **A/D** [Net77]. **ABC** [Alb78]. **Abelian** [Mac70]. **Absorption** [Mar76d]. **Abstracts** [Ano76a, Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e]. **Access** [BBB<sup>+</sup>79, CR78, GR78, Nea72, SW73, WP71]. **Accuracy** [Hil77, Hol73, KN72, Lev78, MS72]. **Accurate** [Sch78]. **Achievements** [ACTW77]. **Acid** [Ano71k, BW70a, BLV70, CFB70, Cus70, DS70, Gar70, HRH70, KFBL70, Lue70b, Mil70, OBW70, SSV70]. **Acoustic** [Ano78n, CS77b, Fla79, IF77]. **Acoustical** [GS70]. **Acquisition** [Cha70a]. **Across** [Kra71]. **Active** [Bau72, FL79, FDDM75, Mos70, Sze73, Tow75]. **Adaptation** [Ano79l, NMW79]. **Adaptive** [AS70, Boy76, Cro78b, CJF73, Cum75, FM73, Fal76b, Fal78, FM79, GW79, Goo71, Has75, Jay70, Jay73, Jay77, JC79, MS79a, MSG78, Mit74, Mit75, MG78, Mue75, NPM77, RT71, RB74, Sca79, Tho71b, Tho71c, Yeh70]. **Adaptively** [MS79b]. **Added** [BB78]. **Adder** [Wil72]. **Addition** [MPS77]. **Additive** [HY70, MF70]. **Address** [Wol72]. **Addressing** [BGK72, GP71]. **ADF** [AC70, AAS70, Ano70m, BGK70, CFP70, CLT70, EG70, KNS<sup>+</sup>70, PSW70]. **Adhesive** [SP77]. **Adhesives** [Dah72]. **Adjusted** [Cho74]. **Adjustment** [Owe72, Raw70]. **ADM** [Aha78b]. **ADM-Encoded** [Aha78b].

[Dan75]. **Announcement** [CSL79]. **Anomalous** [DO79]. **Anomaly** [Wan70]. **Antenna** [CWE<sup>+</sup>78, Dra74, Lee71, Moo70, Ohm74, Sem77, Sem79, SBR78a, Tur75]. **Antennas** [Chu71a, Dra78, Gan76, IZ70, Tho71a, Zuc70a]. **Anticausal** [Wal77]. **Aperture** [JC79, Mar77a]. **Apertures** [And75a]. **Apollo** [Cap72]. **Apparatus** [FRSD72, Las76, WSS78]. **Appearing** [Ano76a]. **Application** [BHKJ74, CGL71, CFMS78, CS78, FR79, HO77, Jag78, JR72, KS71, Lap76, Liu74, Lue72, Mor78c, Mos70, Ols71, Osb77, PB74, RW79, Ric70, Rum79, SW71a, Smi79, SW71b, Tho71c]. **Applications** [Aha72a, Aha78a, Aha78c, Ben75a, HS78a, Koo78b, LM70, LMT78, MG75, Mus77, Per71b, Per71c, Per73a]. **Applied** [Bau72, Ano70l, Lee69]. **Approach** [Aca79, ACG79, BG72b, Den76, Goo71, HY70, Koo78a, LW74, Mos70, Mue73, RSA77, Rif75]. **Approximate** [Hal75]. **Approximating** [Net73]. **Approximation** [Hey75, Jag70, Jag78, MS72, Mes78, Rob71]. **Approximations** [Bud73, Dar70, FR79]. **Arbitrary** [Mar77a, RM72]. **Architecture** [FP79, Ols75]. **Area** [Aca78, Seq72]. **Areas** [Fre78]. **Arithmetic** [Maz78b, Mit77]. **Arrangement** [BDJ79, BPW79, BGH79]. **Arrangements** [DG79, FG71]. **Array** [AH79, DG79, Mil78, Pir79]. **Arrays** [Abe78, KT73, Yeh70]. **Arsenide** [KS78, MWW<sup>+</sup>79]. **Articles** [Ano70m, Ano70n]. **Aspects** [HP72]. **Assignment** [CR71, CR72, Kar71, Sch71]. **Assist** [Pea72]. **Assisted** [CRAC79]. **Associated** [DSS78, SDS78]. **Asymmetric** [Aun73, Buc70, Mar71b, Mar73b, Mar77c, RW74, SDS78]. **Asymptotic** [Mor70]. **Asynchronous** [Cha74, Maz71]. **Atlanta** [BSS78, BM78, DW78, Jac78, KW78, MSW78, MHSS78, MP78, RC78, SRMC78, SCD78, SBR78b]. **Atmosphere** [Hen73b]. **Atmospheric** [Wri71]. **Attempts** [DM78]. **Attenuation** [BR74, Coh71, Hen73b, Lin73, Lin75, Lin77a, Man74, Mar71a, MCC73, MC73, Osb77, Rut70, Sem71, Wri71]. **August** [ALM74]. **Authors** [Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e, Ano77r, Ano77s, Ano77t, Ano77u, Ano78o, Ano78p, Ano78q, Ano78r, Ano79m, Ano79n, Ano79o, Ano79p, Ano79q, Ano79r, Ano79s, Ano79t, Ano79u, Ano79v]. **Autocorrelation** [Jay75a]. **Automated** [AHP79, BDRP79, CSL79, EKN76, YBBW79]. **Automatic** [Alb78, Blu77, BPM79, BCM<sup>+</sup>74, BCKV74, BWW74, CGHW74, Cha70a, Cha74, CCWW74, HHM<sup>+</sup>74, MRR79, PMAB79, Ros76, RS79]. **Autonomous** [CLT70, Mor70]. **Auxiliary** [BBJM<sup>+</sup>77, KS71]. **Available** [Che76]. **Avalanche** [MHSS78, Per71b, Per71c, Sch70]. **Average** [AS72]. **Avoiding** [Lun70]. **Award** [WP75]. **Axial** [CM77]. **Axis** [Mar70a]. **Axisymmetric** [MC74]. **B.S.T.J.** [Aha72b, ATS70, Ben71a, Ber79, BBL72, Bob74, BS70b, BG72b, Che76, CT79, Chu79a, CS71, Daw72, Fen70, FMOT74, Hen73b, HS72b, HL73, Hol73, KMM73, KS70, Kur70, Laa71, Mes72, ML79, MCC73, MC73, Pen70, Per71a, Ros72, SP77, SS74, Sem73, Sem79, Seq72, Sta74, TBCR72, WKS<sup>+</sup>72, WHF77, Wil70a, WN72, Zuc70a]. **Background** [You79]. **Balance** [Gue75]. **Balanced** [Bel78, Chu78, HL77, HL78, Len77a, Mil72]. **Balanced-Pair** [Mil72]. **Balancing** [BN71]. **Band** [AI74, Ber70b, CS77a, Cro78a, Per71a, PK70, Ric73a, Wyn76, Cro77]. **Band-Limited** [Wyn76]. **Bandlimited** [Jag70]. **Bandpass** [Log77]. **Bands** [Tur75, CWF76]. **Bandwidth** [Ber70a, Hub73, LS71, Lun71, Pra70, Wyn78]. **Bandwidths** [RB70]. **Bank** [BG72a, BS72b, CT72, DMM72, FDDM75, HP72, MT72, VG72]. **Banks** [SR71, SRH75].

**Barrier** [Dra72b]. **Base** [CGHW74, Lee71, LMT78]. **Base-Station** [Lee71]. **Baseband** [Bro71c, Dut76, Per73b, RB70]. **Based** [Ben71a, CB72, Che76, Fan78, Gea79, MS79a, WS70]. **Basic** [CCR<sup>+</sup>77, Fuk79, Gey76, Ken70]. **Batch** [Kuc73a]. **Batteries** [KFBL70]. **Battery** [Ano71k, BW70a, BLV70, CFB70, Cus70, DS70, Gar70, HRH70, KFBL70, Lue70b, Mil70, OBW70, SSV70]. **Beacon** [ACH<sup>+</sup>78, ACG78, Cox78, DZ78, Mul78, Rus78]. **Beam** [Aca77, ALW79, DG79, Gan76, Glo70, Kai70, Mar70b, Ohm74, RY77, SRPR70, Sem77]. **Beams** [MM71a, May71]. **Beamwidth** [Pir79]. **Beat** [Hub71]. **Bed** [DPZ79]. **Beginning** [RSR74]. **Behavior** [Aha79, Bra71, Con72b, DM78, Ken70, Lin71, Lin73, Mil70, RS74, SR74]. **Behaviors** [LC70]. **Bell** [HN78, Ano76a, Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano76h, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e, Ano77f, Ano77r, Ano77s, Ano77t, Ano77u, Ano78a, Ano78o, Ano78p, Ano78q, Ano78r, Ano79m, Ano79n, Ano79o, Ano79p, Ano79q, Ano79r, Ano79s, Ano79t, Ano79u, Ano79v, Cox78, Dan75, Eck78, Kes71, KFBL70, OBW70, Pfe79, SSV70]. **BELLPAC** [HL79]. **Bending** [Arn74e, BY78, Mar71b]. **Bends** [Mar73d]. **Benes** [Hwa71]. **Bent** [Mar74b]. **Between** [And75a, Arn74c, BM71, CM75b, Chu71a, Dra77a, GH70, Jay74, Maz77, RKHD74, Som73]. **Biagetti** [Ano71k]. **Bias** [Alb78, Bra73, TKN74]. **Bias-Circuit** [Bra73]. **Bias-Temperature-Stress** [TKN74]. **Biases** [Des73]. **Binary** [Aha78b, Fer72, Gre74, Llo77, Mac70, Obe70]. **Bipolar** [Blu72, Gum70, GP70, MCKP72, MM75, Per72]. **Bipolar-IGFET** [MCKP72, MM75]. **Biquad** [FL79]. **Bit** [ACG79, Aha78a, Can74, Cro77, HS75b, Jay70, Jay74, Jay77, Mus77, PMN78, RJ72, TNMC79]. **Bit-Rate** [PMN78]. **Blazed** [Mar76a]. **Blinders** [Tho71a]. **Block** [Aha72c, Cha70b, Chu78, Gre74, Kro72, Pie72, SJS79]. **Blocking** [Ber79, CH77, CH78b, CH79, Jag75]. **Blocks** [FL79]. **Blooming** [Seq72]. **Boards** [Rai79]. **Bonding** [Cus70]. **Bound** [Chi70, Liu74, Maz75b, Wyn75a]. **Boundary** [Blu78, Lew76, Sch72]. **Bounds** [Pra71, YH71]. **Breakdown** [AS72]. **Briefs** [Aha72b, ATS70, Ben71a, Ber79, BBL72, Bob74, BS70b, BG72b, Che76, CT79, Chu79a, CS71, Daw72, Fen70, FMOT74, Hen73b, HS72b, HL73, Hol73, KMM73, KS70, Kur70, Laa71, Mes72, ML79, MCC73, MC73, Pen70, Per71a, Ros72, SP77, SS74, Sem73, Sem79, Seq72, Sta74, TBCR72, Wag70, WKS<sup>+</sup>72, WHF77, Wil70a, WN72, Zuc70a]. **Broadband** [Dra77a]. **Broadening** [Arn75a]. **BSTJ** [Ano70k, Ano70l, Ano71k, Ano75k, Ano78n, Ano79l, CH79, NK73a, Ano72k, Wag70]. **Bubble** [Aha72a, Aha72d, BBL72, BBB<sup>+</sup>79, BN73, FM71, TBCR72]. **Bubbles** [DeB72, Kur70, Ros72, WN72]. **Buffer** [Has72, MCKP72, MM78a]. **Buffer-Driver** [MCKP72]. **Buffering** [FGM78, Lim72]. **Building** [Eck78, FL79, SW71b]. **Buildings** [Pfe79]. **Bump** [Cho72]. **Burial** [Beb72, Con72a, Con72b, Dah72, DeC72, Kle72, Kwe72, Min72, Ven72]. **Buried** [Ken73, MSW74, WKS<sup>+</sup>72]. **Buried-Channel** [Ken73, MSW74]. **Burnout** [Bra73]. **Burst** [BW70b, Cha73, GMS73, Jay75a, Peh70, SGM74]. **Burst-Error** [Jay75a]. **Burst-Trapping** [Peh70]. **Bust** [Ton70]. **Bust-Trapping** [Ton70]. **Busy** [Eis77]. **Busyness** [CB72]. **Butt** [CMG73].

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EFG78, ES77, Fos71, FYMS78, HLL78, LS70, Mil75a, MAGS78, Sch78, Sti78, Wah77].

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**Call-Carrying** [FR73a]. **Call-Congestion** [KN72]. **Calling** [Bri71]. **Calls** [Ben70].

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**Carried** [HH73]. **Carrier** [Ano74k, Cha70a, Fal76a, Fal76b, Ho71, HS72b, MNS78, Per72, Rao78]. **Carriers** [Hub73, MS73b, MS73a]. **Carry** [Nea72].

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**Cell-Site** [EFW79]. **Cells** [KSBL74, TKN74]. **Cellular** [DPZ79, Mac79]. **Centennial** [Ano76h].

**Center** [BJO78, CK78, MB71, MP78].

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**Channelization** [HNW77]. **Channels** [Bab73, Cho72, Fer72, Hub73, Jay75a, MG78, MF70, SW73, Wal70].

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**Chords** [IF72]. **Circuit** [Alb78, BKS71, Bra73, But71, CK71, CES74, DC71, Fra78, HY71a, HN78, Kar71, Ken70, Log71, Mat70, O'N71, Ols71, SWD71, Yam72b]. **Circuits** [Aha71, Aha72a, Aha72b, Aha72d, BBB<sup>+</sup>79, Bra71, BCM<sup>+</sup>74, CK71, Cha74, CDH70, Die71, GS73b, Lak79, Maz78a, Ric70, Sch74, SWD71, Wad78a, Wad78b, Wag71].

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**Cladding** [Mar71a]. **Class**

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**Data/Trunk** [GHR75]. **dc** [Chi70, Gre74, WC73, Wil70b].

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JZ70, Ker70, KLRS70, MS73b, MS73a, MSW74, MS75a, Poo70, PS70, Raw70, SRPR70, Seq74, SS71b, Thi71, WKS<sup>+</sup>72].

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**Division** [AD78, LW74, Maz71]. **Document** [KLO78]. **Domain**

[Aha72b, Aha72c, Gea79, Gra70a, Mue73, Per77, SN79, TBCR72, Zuc74]. **Domains** [Thi71, TBTG71]. **Dominant**

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[MCKP72]. **Dual**  
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**Lightguide** [BSS78, BM78, ML79].

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[MSW78, SRMC78, SCD78]. **Like** [Ano75k, Mil74]. **Likelihood** [FM73, Mes73b]. **Limit** [Aha79, LM79]. **Limitation** [Ric73a]. **Limitations** [Tho73b]. **Limited** [Wyn76]. **Limiting** [Can74, LC70]. **Limits** [Ric75]. **Line** [ACKL74, Bab72, Bar70, BBJST77, FG71, Gil75, Gra72, Gra70b, GS74b, HM74, KLS76, LM76, Man74, MM72a, Mil72, MM72b, O’N71, Rut71, SOP73]. **Line-of-Sight** [Bab72, Bar70, Gil75, Gra70b, Rut71, SOP73]. **Line-Power** [HM74]. **Line-Protection** [GS74b]. **Linear** [Ber79, CH78b, CH79, Gop71, Gre73, Has75, Liu71, Mos70, MF70, Rab72, RT71, RM72, RB70, Sam75, SWD71, Sem74, Seq74, Sha72, SG77]. **Linear-Prediction** [Sam75]. **Linear-Predictive** [Has75]. **Linearity** [Per73b]. **Linearized** [JB71]. **Lined** [CD71, Car71, CM73, CD73]. **Lines** [Bri78, CRSB77, IS73, Ros76, Sta74]. **Link** [CGRS77, Mus77, RSCG77]. **Links** [AH79, CKS79, CBK79, GS73a]. **Lipschitz** [Sha70]. **List** [Ano75m]. **Listener** [Bri71]. **Listeners** [MRM78]. **Listings** [RS79]. **Lithium** [Wil77]. **Load** [BN71, Des75, Des76, GLW74, Gue75, Hil77, MM75, Mes78, Wil71]. **Load-Balancing** [BN71]. **Loaded** [Owe72, Ram74]. **Loading** [MPS77]. **Local** [BKL75]. **Locating** [RSR74]. **Location** [LTV70, RC78]. **Locked** [Cha72, Dut76, Eis72, Obe70]. **Logic** [CES74, Hag75, Ols75, Wad78b]. **Logic-Circuit** [CES74]. **Long** [AS72, Che71, Doa78, Lin77a]. **Long-Distance** [Doa78]. **Long-Haul** [Che71]. **Long-Term** [Lin77a]. **Longitudinal** [ES77, IF77, Mil75c]. **Look** [BG72b]. **Loop** [And78, AS78, AB78, BB78, BGK72, BG72b, Cok72, DL78, Fre78, Fri78, Gib78, GP71, HS78a, HW78, Koo78b, Koo78a, Lap76, Lon78, MNS78, Man78, Mar78, Moo70, Mor78b, Obe70, Rao78, SS78, Sti78]. **Loops** [Bro71c, Cha72, Dut76, Par78a]. **Loose** [Mil75b]. **Loss** [Bis71a, CD71, Car71, CM73, CHS76, CGBS75, CM78, DS73, Gar75, GSBC73, Glo75, Glo76, Jag74, KA74, Kra71, KN72, Mar72c, Mar77b, Met79, MM78b, NK73a, NK73b, Sne71, Som73, Spa76, Sul71, Wil71]. **Loss-Noise-Echo** [Spa76]. **Losses** [Ano70k, Arn74e, FMOT74, Lue70a, Mar70d, Mar70c, Mar71b, Mar72d, Mar72e, Mar73d, Mar73e, Mar74c, Mar76b, Mar76c, Mar76d, Mar76e]. **Lossy** [CM75a, IS73, Mar74b]. **Loudness** [Sul71]. **Low** [Aha78a, Aha78c, CD71, CM73, CGBS75, CS71, Cro77, DS73, FH71, FMOT74, GS74a, GSBC73, HS75b, Hen73b, HRC73, Hub73, IL78, KA74, KS78, Mus77, Neu71, Par78b, RJ72, Sne71, Som73, TNMC79]. **Low-Bit-Rate** [Aha78a, Cro77, HS75b, Mus77, TNMC79]. **Low-Clock-Rate** [Aha78c]. **Low-Frequency** [Par78b]. **Low-Loss** [CD71, CM73, CGBS75, DS73, GSBC73, KA74, Sne71, Som73]. **Low-Noise** [CS71, GS74a, IL78, KS78]. **Low-Pass** [HRC73]. **Low-Speed** [FH71]. **LPC** [GSC+79, SJ76]. **Lumped** [Ken70]. **Lumped-Circuit** [Ken70]. **M** [GG73]. **M/PCM** [GG73]. **MAC** [CT79, Rov78]. **MAC-4** [CT79]. **MAC-8** [Rov78]. **Machine** [AMS70, GHL72]. **Machinery** [WSS78]. **MacWilliams** [MSG72]. **Made** [KA74]. **Magnetic** [Aha72c, BBL72, BBB+79, Car71, FM71, GOS74, Gra70a, HN78, PB74, PB75, PSW70, Ros72, Slo76, TBCR72, Thi71, TBTG71, WN72]. **Main** [BB78, Fen71, HMS72, Sch71]. **Maintenance** [AC70, BS78, BBJM+77, BDG+77, CH74, CDD+78, DPS71, FG71, FR75, GH77, GHRS77, HS75a, MRY77, Mor78b, Rif75, Sna78]. **Major** [Apr75]. **Making** [HP70]. **Man** [GHL72].



**Man-Machine** [GHL72]. **Management** [CW73, DJ75, GS73a, GHHJ77, HR73, MW75, PR73]. **Manifolds** [Net73]. **Manipulations** [SJ76]. **Manually** [Cho74]. **Manufacture** [AHK<sup>+</sup>78, BSS78, Cha70b]. **Manufacturing** [BG72a, Ele77, Gar72]. **Map** [Goo74]. **Marcuse** [Ano70k]. **Margin** [Aca79]. **Markov** [Gib78]. **Markovian** [Des75]. **Mask** [BP70, HP70, Yam72b]. **Mask-Making** [HP70]. **Masking** [Sen70]. **Mass** [IF72]. **MASTER** [GS73a]. **Mastergroup** [GRW71]. **Material** [Arn74b, BW70a, CDF<sup>+</sup>78, Con72b, KA74, Mar74f, PSMO75, SH74]. **Materials** [Bro70, Con72a, Ker70]. **Mathematical** [Ber70a, FM71, Gra70a, Mit74, Mit75]. **Matrix** [PR74]. **Maxentropic** [Sle72a]. **Maximum** [Chu71a, FM73, Mes73b]. **Mb/s** [MSW78]. **Mean** [Cho74, FF73, GW79, Mue75, Sal73]. **Mean-Square** [Mue75, Sal73]. **Mean-Square-Error** [FF73]. **Mean-Squared** [GW79]. **Mean-Squared-Error** [Cho74]. **Means** [Kuo75]. **Measured** [Coh71, Laa70]. **Measurement** [CM78, Cox75, Des73, Doa78, FHH<sup>+</sup>79, GHWY77, Hil77, Hub71, NK73a, NK73b, RV70, RC78, Rus78]. **Measurements** [Bis71a, CHK<sup>+</sup>74, CAK76, Des75, Dix76, GS70, Has75, KN72, LMY76, MM79a, RS78, Rif79, Sem71, Sem74, Sem77, TKK73, Wri71]. **Measures** [Bra72, Stu76a, Stu76b]. **Measuring** [AD76, AMS70, Sul71]. **Mechanical** [FHT77, GGL<sup>+</sup>77, KLRS70, PS70]. **Mechanisms** [IL78]. **Media** [Mil74, Ano75k]. **Medium** [ACTW77, CGL71, Ele77, GGL<sup>+</sup>77, GH77, KS71, SW71a, SW71b]. **Medium-Haul** [CGL71, KS71, SW71a, SW71b]. **Melt** [DSS78, SDS78]. **Memories** [BN73]. **Memory** [ABG<sup>+</sup>77, BW74, FM73, Jay70, Jay73]. **MERT** [LB78, NP78]. **MESFET** [Fuk79]. **Message** [ADM78, AAS70, BS76, KNS<sup>+</sup>70]. **Message-Switching** [BS76]. **Metal** [CS71, PB75]. **Metal-Semiconductor-Metal** [CS71]. **Metallic** [WM70]. **Metallurgy** [PB73]. **Meter** [CWE<sup>+</sup>78, Fen70]. **Method** [Che76, Hal70, Hal75, Hol73, Hub71, IZ70, Kau74, Kru79, Lin75, Liu74, Nea72, RRS70]. **Methodology** [AS78]. **Methods** [AR79, CB72, CRSB77, PR74]. **MHz** [CKS79]. **Michailov** [Rei72]. **Microbending** [Gar75, Mar76b]. **Microcomputer** [CT79, WSS78]. **Micromachining** [May71]. **Microphone** [NS72, Pir79]. **Microprocessor** [Fan78, Lyc78]. **Microprocessor-Based** [Fan78]. **Microprogram** [Sto76]. **Microscopic** [Tho74b]. **Microstrip** [Sne71]. **Microwave** [ALS71, Bab72, Bab73, BCS71, Bar70, BJL71, BW71, Bul71, Bul75, Chu79a, CS71, Die71, Dra74, Dra77a, DSW71, Fen71, Giu71, HJ71, JP71, Lin75, Lin77a, Lin77b, MCC73, MC73, Ohm74, Rut71, Sei71, Sem71, Set70, Sha72, SOP73, TG76, VP79]. **Microwaves** [CGL75]. **Mid** [Cro78b]. **Mid-Range** [Cro78b]. **Mid-Range/Mid-Tread** [Cro78b]. **Mid-Tread** [Cro78b]. **Miller** [Ano75k]. **Millimeter** [ABH77, AGW77, ACTW77, BBJH<sup>+</sup>77, BBJM<sup>+</sup>77, BCDD77, BBJST77, CM77, CHM<sup>+</sup>77, Chu74, CWE<sup>+</sup>78, DPR77, Ele77, FHT77, GHWY77, GS74a, Gol77, GGL<sup>+</sup>77, GH77, HNW77, HMG70, LOOS77, RBH77, Tho77a, War77]. **Millimeter-Wave** [GS74a]. **Minicomputer** [LC78]. **Minimax** [RS74, SR74]. **Minimize** [Wyn78]. **Minimizing** [CR73a, Lue70a]. **Minimum** [Coo77, FF73]. **Minority** [MS73b, MS73a]. **Minute** [Che76]. **Mirrors** [Zuc70b]. **Misalignment** [CM78]. **Misalignments** [CMG73]. **Mixed** [Kuc72]. **Mixers** [Dra72a, Dra72b]. **Mixing** [Mar76c, Per74]. **mm** [Doa78, CKK<sup>+</sup>71]. **MM-Wave**

[CKK<sup>+</sup>71]. **Mobile** [AFS79, CHPT79, CR71, CR72, DPZ79, EFW79, Fis79, FP79, Huf79, Jay75b, Lee71, Mac79, MS73b, MS73a, Tsi79, Wal79, You79, Ano70l, Lee69]. **Mobility** [Wan70]. **Modal** [Mar77a, Owe72]. **Mode** [Arn74d, Cha72, CMG73, Dra77b, Mar70b, Mar70d, Mar72f, Mar73a, Mar74e, Mar75a, MP75, Mar76b, Mar76c, Mar77b, Per74, RSSF78, Sch70, Som73]. **Mode-Mixing** [Per74]. **Model** [AFG79, BB78, Ben71a, Bud73, Bur70, Cha73, FIS75, FR73b, FHH<sup>+</sup>79, FR79, Fri78, GS73b, Gra70a, GP70, Hey75, IF72, Lim73, LN72, LW74, MS79a, MP71, Mea75, MM78b, Per72, Rum79, Sem79]. **Modeling** [Ame72, AS78, BB79, BB78, DL78, Fre78, Fri78, Gib78, HMS72, Koo78b, Koo78a, Log71, Lon78, Mar78, Sti78, Wad78b]. **Models** [Ben71a, CHS76, FM71, Gib78, Hay74]. **Moderate** [Hub73]. **Moderate-Bandwidth** [Hub73]. **Modern** [GRW71]. **Modes** [Arn74c, CD71, Car71, CM73, CD73, Doa78, Mar71a, Mar71c, Mar72b, RW74, Sch73]. **Modification** [WHF77]. **Modified** [DW78]. **Modular** [HL79]. **Modulated** [GHM73, Gla71a, WR73]. **Modulation** [Aha78c, Cum75, Ger72, Goo71, Hol75, HMG70, Jay70, JR71, LM70, Laa70, Log78, Pra70, PR74, Pra76, RP75, RB74, San78a, SKCM78, Sle72b, Whi71]. **Modulations** [Jay74]. **Modulator** [Boy76, CKK<sup>+</sup>71, RB70, Sha72]. **Modulators** [Giu71, Gre73]. **Molded** [CR76, Min72, SBGC75]. **Molded-Plastic** [SBGC75]. **Moment** [Den76]. **Monitor** [Fan76]. **Monolithic** [Gea79]. **Monte** [BKS71, Ols71]. **Moon** [Cap72]. **MOS** [CLB75, Wad78b]. **Motion** [Ber70a, Gea79, NR79, NS79, SN79]. **Motion-Compensated** [NR79, NS79]. **Motions** [Liu70]. **Mounting** [Mat70]. **Mounts** [Ano79l]. **Moving** [Lim72]. **MSM** [CS71]. **Multibeam** [AD78, Tur75]. **Multicomponent** [Lew76]. **Multiconnection** [Hwa79]. **Multidimensional** [Aha72a, Aha72b, Aha72d]. **Multidisturber** [Lap76]. **Multihour** [Els77]. **Multilayer** [BBL72, Sal75]. **Multilevel** [Gla71a, HY71b, HMG70]. **Multiloop** [Apr75]. **Multimode** [Arn74a, Arn75a, CM75a, CM75b, CAK76, Glo72, Glo73, MG73, Mar72c, Mar72e, Mar72g, Mar74e, Mar76b, Mar76d, Met79, Oga77, SKCM78]. **Multipath** [Bar72, Bul71, Lin77b, Mot77, VP79]. **Multiple** [Aca77, Aha72b, BW70b, Dab75, Glo70, Gop71, Ohm74, RB76, Rut71, Sem77, SW73, Sze73, Wol72]. **Multiple-Address** [Wol72]. **Multiple-Beam** [Glo70, Ohm74, Sem77]. **Multiple-Burst** [BW70b]. **Multiple-Feedback** [Sze73]. **Multiple-Path** [Rut71]. **Multiple-Spot-Beam** [Aca77]. **Multiplex** [Mau74]. **Multiplexer** [AFG79, GLW74]. **Multiplexers** [BBCC75]. **Multiplexing** [DMM72, HS72a]. **Multiplication** [Per71b]. **Multiplier** [SS71a]. **Multiprocessor** [Phi75]. **Multiqueue** [Kue79, Whi75]. **Multireflector** [Dra78]. **Multiserver** [Kuc73a, Whi75]. **Multistage** [Hwa76]. **Multivariate** [BW74]. **Mutually** [Mor71]. **N** [Ano79l]. **Named** [Ano77f, Ano78a]. **Names** [RS79]. **Narrow** [Ber70b]. **Narrow-Band** [Ber70b]. **Narrowband** [Bab72, Bab73, Bur70, CGRS77, RSCG77]. **Narrowband-to-Wideband** [CGRS77]. **Nationwide** [Lin77a]. **Natural** [PR73]. **Nature** [Aha79]. **Near** [LM76, Pir79]. **Nearly** [RW74]. **Necessary** [Lun71]. **Negative** [Man74]. **Negative-Impedance** [Man74]. **Neighbors** [WS70]. **Netravali** [Ano79l]. **Network** [ABLR77, ADM78, Avi71, BDK78, BKKM71, BBW78, BS78, Ben75c, Ben78, BJO78, BPS75, BDS78,

CR78, CK78, DL76, Dor71, DT71, DM78, EKN76, FW78, FH71, FR73b, FR73a, FMSZ78, GR78, GBN<sup>+</sup>76, GW74, GHHJ77, Hay74, HS78b, Koo78a, MMM75, MW78a, MW78b, Pie72, Rod78, SZ75, Slo72, Spa76]. **Networks** [AOR76, Bau72, Ben70, Ben73, Ben75a, Ben75b, BS75b, BDS78, CH77, Chu78, Chu79b, DL76, DSW71, Eis77, Els77, Gos74, GAW<sup>+</sup>76, GBN<sup>+</sup>76, HW76, Hol71, Hwa71, Hwa76, HL77, HO77, HL78, Hwa79, Kar71, KLS76, Kle76, KU76, KT73, Kru76, Laa71, Lak79, Lue72, Mos70, OTW71a, OTW71b, RM72, San70a, San70b, Sti78, Tho71c, Wil70b]. **Nickel** [AD79, MM79a]. **Niobate** [Wil77]. **No** [ABLR77, AHPR79, AC70, AAS70, Ano70m, Ano70n, Ano79l, AOR76, BCKM70, BC70, BGK70, BDJ79, BDRP79, BCD<sup>+</sup>77, BHP71, BPW79, BGH79, CFP70, CCR<sup>+</sup>77, CSL79, CDH70, CGWN77, CLT70, CS78, DL76, DVW79, DKP<sup>+</sup>70, EG70, GAW<sup>+</sup>76, GBN<sup>+</sup>76, GHHJ77, Gue75, GHRS77, HW76, HST70, HJJ<sup>+</sup>77, JJ70, KLS76, KPS70, KNS<sup>+</sup>70, Kle76, KU76, LO77, MOR<sup>+</sup>77, MS73b, MS73a, MRY77, NMW79, Pek78, PSW70, RSS79, RT77, Spe77, SH79, SVW79, YBBW79]. **Nobel** [Ano78a, Ano77f]. **Noise** [Aha78b, Bur70, CHS76, CR73a, CR73b, Cha73, CS71, CHM73, FGW73, GS74a, Gol74, GG73, Gre73, HY70, HY71b, HS72b, IL78, Jac70, KS78, Laa70, MPS77, MF70, Nol75b, Per71a, Ric70, Sen70, Spa76, SK74, Tho74b, Tho74a]. **Noisy** [MG78, RT71, Sca79]. **Nonadaptive** [Has75]. **Nonblocking** [Ben73, Chu79b, Hwa79]. **Nondiversity** [Bab73]. **Nonequalizing** [Per76]. **Nonexhaustive** [Kue79]. **Nonideal** [Tho71b]. **Nonlinear** [Bau72, CK71, KN78, MSG72, Mor70, Nea71b, San70a, San70b, SS71b, Tho71b, Tho71c, Wil70b]. **Nonlinearities** [Fal78]. **Nonorthogonal** [Arn70]. **Nonrandom** [Nea71a]. **Nonstationary** [Jag75, MS79a].

**Nonuniform** [Kog76]. **Normal** [CD73]. **Notch** [Zuc74]. **Note** [Net73, San78a, Wyn76]. **Notes** [Mul78]. **Novel** [AD76, CRS75]. **Nuclear** [Sha75]. **Number** [Vig70, Vig71]. **Numbers** [Ham70, RRS70]. **Numerical** [Blu77, Hel79, Mar77a, Ric75]. **Numerics** [JPS<sup>+</sup>78]. **Nyquist** [Maz75a].

**O** [Ano71k]. **Objective** [Bra72, GSC<sup>+</sup>79, MSG78]. **Objectives** [BWW74, EG70, JJ70, RT77, Sta77, You79]. **Oblique** [Sal75]. **Observability** [CH74, RM72]. **Observation** [LR79]. **Observations** [Bri78, Gol77, Maz79b, RB76]. **Obtaining** [RS79]. **Occupancy** [Pra76]. **Occurrence** [SDMS77]. **Ocean** [Cha70b, LS70]. **Off** [HR73, Per74]. **Offered** [Mes78]. **Office** [BS71, CHPT79, CGWN77]. **Offset** [Chu77, CM78, Dra78, GS75, Glo76, Mil76b, Sem77]. **Offsets** [Bis71a]. **One** [Can74, Eis77, Jay70, Jay73, Ric73d]. **One-Bit** [Can74, Jay70]. **One-Word** [Jay73]. **Open** [IZ70, Zuc70a]. **Operating** [Fre78, Hag75, Koo78a, LMT78, LB78, NP78, RT71]. **Operation** [BGK70, FR73b, Mar72c, SBR78a]. **Operational** [BDJ79, BDRP79, CCWW74, KPS70, Rod78, Tho73b]. **Operations** [AS78, CK78, DL78, Gib78]. **Operator** [RSS79]. **Optic** [FGS75, Hen73a, Mil75a, Mil78, Per73b, Per73c, Per73d, Per74, RC78]. **Optical** [AH79, Arn70, Arn74a, Arn75a, AP75, AD76, Bis71a, Bis71b, BS75a, BM78, CM75a, CM75b, CR76, CRAC79, CBK79, CGBS75, CGL75, Coh72, CAK76, CMG73, CHJZ70, DMK78, DS73, DW78, ES77, FMOT74, Gar75, Gey76, Glo72, Glo73, GSBC73, Glo75, Glo76, Goe74a, Goe74b, Hol75, Hub73, JMM78, Kai70, KMM73, KN78, Las76, Mar77a, Mar73a, Mar73c, MM73, Mar74b, Mar74d, Mar75a, MP75, Mar76d,

Mar76e, MS76, Met79, Mil75b, Mil76a, Mus77, Per71a, Per71b, Per71c, Per73a, Per74, Per76, Per77, PSMO75, Pre76, RS76, RS78, Raw70, San78a, SKCM78, SP77, Sch72, Sch78, Sha75, SBGC75, SBR78b, Smi79, Som73, Sta74, SH74, Whi71, Zuc70b].

**Optical-Fiber** [BS75a, CGBS75, Glo75, Mus77, Per77, SKCM78, Sch78, SBGC75].

**Optical-Frequency** [Hol75, Hub73].

**Optical-Waveguide** [San78a]. **Optically** [Kno77, ML79]. **Optics** [Arn74c, Arn74d, Arn74e, Arn75b, MM71a].

**Optimal** [Cho72, Chu75, CH78a, Fer72, Fre78, Gar72, Net73, Per74, Whi75].

**Optimization** [BB79, Cha70a, Hal70, KL73, LN72, SBR78a, Smi79]. **Optimum** [FG78, FGS75, FR73a, HRC73, Ho71, Kar71, Maz75c, Mue73, NS76, Net77, OP74, Sal73, Shn70]. **Order** [Coo70, DO79, Lue72, Mar72c, Mar72d, Maz78b, Mit77]. **Ordering** [Ano79l, MNW78, MBN79, NMB76, NMW79]. **Organization** [BWW74, CCR<sup>+</sup>77, EG70, JJ70, KNS<sup>+</sup>70, RT77, Sta77]. **Orthogonality** [Chu71b, Chu73]. **Oscillating** [Ric75].

**Oscillations** [Bra73, Mit77, Sch74].

**Oscillator** [BKS71, CS71, Eis72, FP74, Ken70].

**Oscillators** [Bar71, Bra73]. **Other** [Ano76a, Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e, Ben71a]. **Outage** [ALM74, Che71, LR79, Osb71]. **Outages** [Lun70, Mot77]. **Output** [Gop71, Hub71].

**Overall** [BDJ79, BDRP79, KH74].

**Overflow** [Bur71, Kuc73b, Mit77, Nea72, Wil72].

**Overload** [FR73b, Gre73, JR71].

**Overmoded** [CD73]. **Overview** [AE70, And78, BFR75, Con75, Cox78, DJ75, FW78, HW76, HP70, Jac78, Lon78, RM78, SK75, SH79]. **Oxide** [CLB75].

**Oxide/Silicon** [CLB75].

**p** [MM75, Fen70]. **p-Channel** [MM75]. **P**. [Ano78n]. **P/AR** [Fen70]. **Package** [AH79, SBR78b]. **Packaged** [HR73]. **Packaging** [Glo75, HL79]. **Packet** [WHF77]. **Packing** [Gil79]. **Pair** [Bel78, Koo78b, Len77a, Mil72, RS76].

**Paired** [BHO71]. **Pairs** [BB78, Gil79, Rob71]. **PAM** [GS71a, Wyn78]. **Papers** [Ano76a, Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e, Ano77r, Ano77s, Ano77t, Ano77u, Ano78o, Ano78p, Ano78q, Ano78r, Ano79m, Ano79n, Ano79o, Ano79p, Ano79q, Ano79r, Ano79s, Ano79t, Ano79u, Ano79v].

**Parabolic** [GM73, Mar70a, Mar73c, Mar73d, Mar74c, Mar75b, Mar76b, Mar76c, Mil76b, MM78b].

**Parabolic-Index** [Mar75b, Mar76b, Mar76c].

**Parabolic-Profile** [Mil76b, MM78b].

**Paraboloid** [Chu77]. **Parallel** [Mar71c, RS78, RW74]. **Parameter** [Len77a, RS78, RB76]. **Parameters** [Fuk79, Len77b, SJ76, Wal70]. **Parametric** [Sch74]. **Part** [BPM79, CGRS77, NR79, PMAB79, RSCG77, Arn74c, Arn74d, Arn74e, Arn75b, CHJZ70, DCRZ70, DSS78, JZ70, KLRS70, Len77b, Len77c, Mes73a, Mes73b, OTW71a, OTW71b, SDS78, Stu76a, Stu76b]. **Partial** [Des73, Fer72, Mue75, Nea72, SGM79].

**Partial-Access** [Nea72]. **Partial-Response** [Mue75]. **Partitioning** [KL70]. **Pass** [HRC73, RC76]. **Passband** [Fal76a, GHM73]. **Passive** [FYMS78, GM71]. **Paste** [BW70a]. **Path** [CKK<sup>+</sup>71, Osb71, Osb77, Rut70, Rut71, Sem71, Wil70a, Wri71]. **Path-Diversity** [Wil70a]. **Paths** [BR74, Gil75, Gra70b, Lin75, Slo72].

**Pattern** [Bur70, CHJZ70, DCRZ70, Dra78, GRW70, JZ70, KLRS70, Poo70, SRPR70].

**Patterns** [DSS78, MM79b, RS78, SDS78].

**PBX** [And71]. **PCM** [CJF73, Goe74a, GG73, GMN76, HHJ71, MSG78, MG78, RJ72, SG77]. **Peak** [Bra72, GLW74, RC76]. **Peak-Load** [GLW74]. **Peaked** [Hef73]. **Peakedness** [HH73]. **Penalty** [Mar72c]. **Per-Channel** [MT72]. **Perceptual** [MSG78, RJ72]. **Perfect** [Dra78, Mor79]. **Performance** [AE70, BKKM71, BS72a, BEST78, BFG73, BSS78, CHM<sup>+</sup>77, Cro78a, Cro78b, Dra72b, DT71, DMNT75, DM78, Dut76, FH71, GSC<sup>+</sup>79, HS72a, Hay74, HS72b, JZ70, Kes71, Las76, Lin77b, Mes75, Mes73b, Mor71, Nol75b, Osb71, Par78a, Pra70, RT71, Ton70, TNMC79]. **Periodic** [Kog76, Rif79]. **Periodically** [Ric70]. **Peripheral** [BCM<sup>+</sup>74, CDH70, HJJ<sup>+</sup>77, Sna78]. **Permanent** [Dab75]. **Perspective** [Gra72]. **Perturbation** [MC73]. **Phase** [And75a, BS75b, Bul71, CRS75, Dut76, Eis72, Fal76a, FG78, FGW73, GHM73, Gla71b, Gla71a, Ho71, HS72b, IZ70, KWP72, Maz75c, MSW74, MCC73, MC73, Nag71, Obe70, PR74, RB70, RB74, SKCM78, Seq74, Sha72, Shn70, SOP73]. **Phase-Locked** [Dut76, Obe70]. **Phase-Modulated** [GHM73, Gla71a]. **Phase-Shift-Keyed** [Eis72]. **Phased** [RS76]. **Phenomenon** [Dra72a]. **Phone** [AFS79, CHPT79, DPZ79, EFW79, Fis79, FP79, Huf79, Mac79, Tsi79, Wal79, You79]. **Photodiode** [MHSS78]. **Photolithographic** [Her70]. **Photolithography** [AEH<sup>+</sup>70, AMS70, Ble70, BP70, Bro70, CHJZ70, DCRZ70, GRW70, Her70, HP70, JZ70, Ker70, KLRS70, Poo70, PS70, Raw70, SRPR70]. **Photon** [Per77]. **Photosensitive** [Ker70]. **Photovoltaic** [KN78]. **Physical** [BC70, BBW78, BCE<sup>+</sup>77, HW78, ILR75, Kle76, LF72, Man78, VG72, WA74]. **Picosecond** [Hub71]. **Picture** [LS71, Lim73]. **Picturephone** [BS70a, Bob73, Bob74, CHM73, Has72, And71, Bai71, BH71, Bre71, Bro71a, Bro71c, BHP71, Bro71b, BHO71, BS71, CSW71, Cra71, Das71, Dor71, DPS71, FG71, GS71b, GRW71, MM71b, Uri71, WP71]. **Pictures** [Ano79l, Ber70a, MS79b, MNP77, MNW78, NMB76, NPM77, NMB77, NMW79]. **Pitch** [Jay77]. **Pitch-Adaptive** [Jay77]. **PL** [Van75b]. **PL/1** [Van75b]. **Plan** [ABLR77, AC70, AS78, Bro71b, DPS71, EFG78, Uri71]. **Planar** [Arn74a, KT73, MHSS78, Sch73]. **Planarity** [GS73b]. **Plane** [MC74]. **Planning** [BKT78, BPS75, SS78]. **Plant** [And78, AS78, AB78, BB78, DL78, Fos71, Fre78, Fri78, Gib78, HS78a, HW78, Koo78b, Koo78a, Lon78, Lue70b, MNS78, Man78, Mar78, Mor78b, Rao78, SS78, Sti78]. **Plasma** [JMM78]. **Plastic** [CR76, CRAC79, Kle72, Kwe72, Pre76, SBGC75]. **Plastics** [BLV70, DeC72, Min72]. **Plate** [Lew70, MS73b]. **Plates** [BW70a, Cus70]. **Plus** [WP75]. **PM** [SSP71]. **PNIPN** [PB74]. **Point** [Che76, Gar72, Mor78a, NS76]. **Point-to-Point** [Mor78a]. **Poisson** [Kuc72, Kuc73b]. **Polarization** [AC78, Chu74, CGL75, Chu77, Dra78, Gan76, RSSF78, Sal75, Sem73]. **Polarization-Independent** [Sal75]. **Polarizations** [Chu71b, Chu73, Sem74]. **Polarized** [Mot77]. **Policies** [Fre78]. **Polled** [GR78]. **Polyethylene** [Beb72]. **Polygons** [Yam72a]. **Polynomial** [Aha72a, Aha72b, Aha72d]. **Polynomials** [Kur70]. **Polyvinyl** [HRH70]. **Port** [Ric73d]. **Port-Distortion** [Ric73d]. **Portability** [JR78]. **Position** [AHP79, BDJ79, BDRP79, BPW79, BGH79, CSL79, DVW79, Hol75, RSS79, SH79, SVW79, YBBW79]. **Positive** [Ano71k, BW70a, CFB70, Cus70]. **Positivity** [San79]. **Post** [Abe78, SSV70]. **Potential** [BM71, MS73b, MS73a, WM70]. **Power** [AS72, AI74, ADM78, BCS71, BS72b, CG70, CGS<sup>+</sup>78, Chu71a, Coh72, Gla71a, Glo72, HM74, LO77, Mar72a, Mar72b,

Mar72e, Maz78a, MPS77, Par78b, Per75, RP75, Sch70, Wah77]. **Power-Frequency** [Sch70]. **Power-Telephone** [Par78b]. **Powered** [DMK78, ML79]. **Practical** [HRC73, MSW78]. **Precision** [Bar71, CHK<sup>+</sup>74, FP74, GW79]. **Predicted** [MS79b]. **Prediction** [CPS71, GG70, Jay77, LR79, Sam75]. **Predictive** [AS70, Has75, NPM77, Nol78]. **Preface** [Ano75n, Cro78c]. **Preference** [JR71]. **Preferential** [Sch71]. **Prefilters** [Bob73]. **Preform** [MP78]. **Preforms** [JMM78, PSMO75]. **Preparation** [CGBS75, GSBC73, JMM78, KLO78]. **Prepared** [DW78]. **Presence** [FG78, FGW73, HY70, HS72b]. **Pressure** [Dah72]. **Pressure-Sensitive** [Dah72]. **Primary** [CHJZ70, DCRZ70, JZ70, KLRS70, Poo70]. **Principles** [CFB70, Ano71k]. **Printed** [Rai76, Rai79]. **Printer** [MW78a, MWW<sup>+</sup>79]. **Prize** [Ano78a]. **Probabilities** [Ber79, CH77, CH78b, CH79, Lap76, MM78a]. **Probability** [Hil71, HN76, HY70, HY71b, HO77, Stu76a, Stu76b, Wyn75a]. **Probability-Engineered** [HN76]. **Problem** [BGK72, Cap72, Gil79, GP71, Lew70, Wol72, Wyn71]. **Problems** [MM72a]. **Procedure** [CCR76, KL70, Peh70]. **Procedures** [DVW79]. **Process** [DW78, DM75, DG75, Ele77, Kuc73b, Mar78, Nea71b, Smi79]. **Process-System** [DM75]. **Processed** [MSG78]. **Processes** [Gar72, GG70, Gib78, GMS73, Mar72c, Sle72a, SGM74]. **Processing** [Ano75n, BFR75, Con75, Cro75, DJ75, Dic75, DM75, DG75, Fre75, Gaw75, Hag75, HS75a, HJ75, KNS<sup>+</sup>70, Kuo75, LS71, MCM78, Mes75, MW75, Nic75, Ols75, Phi75, PB73, Rif75, Van75a, Van75b, WP75]. **Processor** [ABG<sup>+</sup>77, BCE<sup>+</sup>77, BDG<sup>+</sup>77, BDN<sup>+</sup>77, CFG<sup>+</sup>77, HMSV77, LC78, Sta77, Sto76]. **Produced** [Ric73a]. **Product** [MP78]. **Production** [Nic75]. **Profile** [AD76, Mar77a, Mar73c, Mil76b, MM78b, MM79b]. **Profiling** [BPM79, PMAB79]. **Program** [BCKM70, DKP<sup>+</sup>70, KNS<sup>+</sup>70, MOR<sup>+</sup>77, Nic75, VG72, WP75, Yam72b]. **Programmer** [DHM78]. **Programming** [Nic75, Rab72, RJLK78, Van75b]. **Programs** [CCWW74, JR78, KPS70, Kur70, Rod78]. **Project** [MW75, SRMC78]. **Projecting** [GG70]. **Projection** [Kru79]. **Prolate** [Sle78]. **Prologue** [Spe77]. **Proof** [Ben75c, Mes72]. **Propagation** [Aha72b, ACH<sup>+</sup>78, ACG78, Bar70, Bar72, Can74, Chu79a, Cox78, DDH75, Gra70b, Len77a, Len77b, Mar72g, Mar72f, MS79b, MSW77, Pen70, Rum79, Rus78, Sem71]. **Propagation-Parameter** [Len77a]. **Proper** [GS73b]. **Properties** [Beb72, Ber70a, Cha73, CDF<sup>+</sup>78, Dah72, DeC72, Des76, Gol74, IF77, Jag74, Kle72, Kru79, Kwe72, Mat70, Min72, PB75, Rai79, Ven72]. **Property** [Mes72]. **Proposed** [Ohm74]. **Protected** [VP79]. **Protection** [BBJM<sup>+</sup>77, Che71, CGL71, Fan78, GS74b, KU76, SJS79]. **Proving** [Ben75b]. **Provisioning** [FHH<sup>+</sup>79]. **Pseudo** [CH72]. **Pseudo-Random** [CH72]. **Pseudorandom** [MPS77]. **Publications** [Ano76a]. **Published** [Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e]. **Publishing** [Ano76h]. **Pull** [Obe70]. **Pull-In** [Obe70]. **Pulse** [AS72, Arn74a, Arn75a, CDF<sup>+</sup>78, Hol75, Mar72g, Mar72f, Mar74e, Mue73, O'N71, WR73]. **Pulse-Position-Modulation** [Hol75]. **Pulse-Width-Modulated** [WR73]. **Pulses** [Hub71, MS76]. **Pump** [SS74]. **Pure** [BY78, KA74]. **Pyramidal** [Sem79]. **QAM** [FF73, Fal78]. **Quadrature** [Blu77, Rob71]. **Quality** [RSA77, WHF77]. **Quantization** [CJF73, JR72, Jay73, Jay77, Nol75a, Wil72].

**Quantizer** [Cro78b, Mit74, Mit75, NS76]. **Quantizers** [CB72, MNP77]. **Quantizing** [CHM73, GG73, Laa70, Nol78]. **Quantum** [Per73a]. **Quasi** [AP75, CM75b, CGL75]. **Quasi-Optical** [AP75, CGL75]. **Quasi-Ray** [CM75b]. **Quasioptical** [Gol77]. **Queue** [Hey75, Kuc73a, Whi75]. **Queues** [Col73, Coo70, GMS73, GM77, Hal75, Kuc72, Mor78c, SGM74]. **Queuing** [AFG79, Hef73].

**R** [Ano71k, Ano78n, CH79, NK73a]. **Radiation** [Ano70k, Mar70d, Mar70c, Mar72e, RS78, Sha75]. **Radiator** [HL73]. **Radio** [ALS71, Bab72, Bab73, BCS71, BJJ71, BR74, BW71, Bro71a, Che71, Chu71b, Chu73, CR72, Die71, Dra74, DSW71, Fen71, Giu71, GH70, HJ71, HGLM77, JP71, KS78, Lee71, Lin77a, Lin77b, LR79, MP71, MG75, Osb71, Osb77, Rut70, Rut71, Set71, Sha72, SOP73, TG76, VP79, Ano70l, Lee69]. **Radio-Relay** [GH70, MP71, Set71]. **Radioastronomical** [Gol77]. **Radiometer** [Wil70a]. **Rain** [Aca79, BR74, Bul75, Che76, Chu74, Cox75, DDH75, GH70, HGLM77, Lin73, Lin75, Lin76a, Lin76b, Lin77a, Lin78, MCC73, MC73, Osb71, Osb77, Rut70, Sem71, Sem73, Sem74, Set70, Set71]. **Rain-Gauge** [Lin76a]. **Rain-Induced** [Chu74, MCC73, MC73]. **Rain-Rate** [Che76, Lin76a, Lin76b]. **Rain-Scatter** [Bul75]. **Raindrops** [MC74]. **Random** [CH72, Col73, Gil75, Hol73, Mar73d, MM72a, MM72b, RRS70, Sch71, Ano70l, Lee69]. **Randomly** [Ben71a, LC70, Ric73b]. **Range** [Cro78a, EKN76, Jac70, Obe70]. **Range/Mid** [Cro78b]. **Rapid** [BPM79, PMAB79]. **Rapidly** [MS75b]. **Rate** [ACG79, Aha71, Aha78a, Aha78c, Bal76, Cha72, Che76, Cro77, DC79, HS75b, Lin76a, Lin76b, Lin77a, Lin78, Llo77, Mus77, PMN78, RJ72, TNMC79]. **Rate-Change** [Aha71]. **Rate-Locked** [Cha72]. **Rates** [Bob73, Bri78, Tho73a, Whi71]. **Ratio** [MPS77]. **Ray** [CM75b]. **Rayleigh** [Mar74d]. **RBCS** [NP78]. **RBCS/RCMAS** [NP78]. **RC** [BKS71, FDDM75, Ric70]. **RCMAS** [NP78]. **Real** [DG75, MNP77, Phi75, Wit79]. **Real-Time** [DG75, MNP77, Phi75, Wit79]. **Realizations** [CR73a, CR73b]. **Reallocation** [BN73]. **Rearrangeability** [Ben75b, Ben75c, Hwa76]. **Rearrangeable** [Chu75, Hwa71, OTW71a, OTW71b]. **Rearranged** [Ben70]. **Reassignment** [PMN78]. **Receiver** [ALS71, DZ78, GS74a, GK76, HJ71, KN78, Per73c, Per73d, Sal74]. **Receiver-Generator** [GK76]. **Receivers** [Ben71b, Goe74a]. **Receiving** [ACH<sup>+</sup>78, ACG78]. **Reception** [FG78, Fer72, Jay75a, Vig70]. **Recognition** [Lev78, LRF78, RW79, RS79, SR75]. **Recording** [May71]. **Recovery** [Fal76a, Fal76b, GS71a, GH75]. **Rectangular** [Abe78]. **Recursive** [GG70, LM79]. **Reduce** [ACG79, Col73, Man74]. **Reduced** [Mar76c]. **Reducing** [Ber70a]. **Reduction** [Ben78, HJ75, LS71, Mar74e, MS79b, PS70, PMN78, Raw70]. **Redundancy** [Neu71]. **Reed** [AOR76, PK70]. **Reed-Contact** [PK70]. **Reflection** [Dra77b]. **Reflectivity** [Zuc70b]. **Reflectometer** [Per77]. **Reflector** [Chu71a, DG79, Gan76, Sem79, Tho71a, Tur75]. **Reflector-Type** [Gan76]. **Reflectors** [Dra74]. **Refractive** [OP74]. **Refractive-Index** [OP74]. **Regenerative** [BBJH<sup>+</sup>77]. **Regenerator** [MSW78]. **Registers** [BS72a]. **Reinforced** [Kle72, Kwe72]. **Relating** [FHH<sup>+</sup>79]. **Relation** [Car71, Dra72a, Gum70, JB71]. **Relationships** [Ben71a]. **Relative** [SR74]. **Relaxation** [Aha78b]. **Relay** [Che71, GH70, HGLM77, MP71, Set71, Wag71]. **Reliability** [Aca77, Fan78, GH77, IL78, JPS<sup>+</sup>78]. **Remanent** [AOR76]. **Remendur** [PB73]. **Remote** [BDJ79, BPW79, BGH79]. **Remover** [Fan76]. **Remreed**

[AOR76, DL76, GAW<sup>+</sup>76, GBN<sup>+</sup>76, HW76, KLS76, Kle76, KU76]. **Renewal** [HH73, Hol73, KN72, Kuc72, NK73a, NK73b]. **Repair** [CRAC79]. **Repeat** [AEH<sup>+</sup>70]. **Repeater** [AHK<sup>+</sup>78, Bal76, BBJST77, BKY70, DPR77, Goe74b, LOOS77]. **Repeated** [ACKL74, Bri78]. **Repeaters** [BBJH<sup>+</sup>77, Cha70b, Per76]. **Representation** [Tho71c]. **Representations** [Liu70]. **Reproducibility** [DW78]. **Required** [GW79]. **Requirement** [Lee71]. **Requirements** [AE70, BEST78, Mes75, Sch71]. **Research** [Ele77]. **Researches** [Bel76]. **Reserve** [KFBL70]. **Resins** [Ven72]. **Resist** [MM79b]. **Resistance** [BM71]. **Resolution** [MM79b, PL71]. **Resonances** [Owe72]. **Resonant** [And75b, AP75]. **Resonant-Grid** [AP75]. **Resonators** [Arn70, CS77b, Mar76e, Zuc70b, Ano78n]. **Resource** [Aca79, Kuo75]. **Response** [Bel78, Boy76, CR73a, CR73b, CAK76, Co077, Fer72, Glo73, GM73, HRC73, Kog76, Liu74, Mar73c, Mar73d, Mar74c, Mar74d, Mue75, NS72, Rab72, Ric70, San70b, Wil72]. **Response-Bound** [Liu74]. **Responsible** [DO79]. **Restoring** [Chu71b, Chu73]. **Result** [Pen70]. **Resulting** [OP74]. **Results** [KW78, Mit75, Per71b, SH74]. **Retention** [TKN74]. **Retransmission** [Yeh70]. **Retrial** [FR79]. **Retrospect** [Mes75]. **Retrospective** [Rit78]. **Revolution** [Kau74]. **Ribbon** [Mil76a, Sta74]. **Ribbons** [CRAC79, SP77]. **Ring** [GM73, HS71]. **Ring-Shaped** [GM73]. **Ringer** [HN78]. **Rise** [Lee75, Rai76]. **Role** [CHK<sup>+</sup>74]. **Rotation** [Chu77]. **Round** [Mar70b, Mar70d, Mar73a]. **Roundoff** [CR73a, CR73b, Jac70]. **Route** [AOS70, AGW77]. **Rubber** [Beb72]. **Rule** [Ric73c]. **Rules** [HRC73]. **Runs** [NMW79, Ano79l]. **Rural** [GLW74].

**S** [Ano78n, CS77a, Cro78a, MSW78]. **S** [Ano75k, NK73a]. **SAFEGUARD** [Ano75n, BFR75, Con75, Cro75, DJ75, Dic75, DM75, DG75, Fre75, Gaw75, Hag75, HS75a, HJ75, Kuo75, Mes75, MW75, Nic75, Ols75, Phi75, Rif75, Van75a, Van75b, WP75]. **Same** [Wah77]. **Sample** [LP71]. **Sampled** [LW74, Mue73]. **Sampled-Data** [LW74]. **Samples** [BPM79, DSS78, PMAB79, SDS78]. **Sampling** [Bal76, Bob73, Des73]. **Sandstorms** [Chu79a]. **Sandwich** [SP77]. **Satellite** [AD78, Aca78, Aca79, AC78, GH70, Lun70, LC78, RY77, Rus78, Tur75]. **Satellites** [Aca77, ALW79, MP71, Ohm74]. **Saturation** [Maz78b, Mit77]. **Scale** [CR72, Sem79]. **Scaled** [SS71a]. **Scaling** [Sne71]. **Scanner** [CLT70, KLS76]. **Scanning** [AD78, ALW79, DG79, RY77]. **Scanning-Beam** [ALW79]. **Scatter** [Bul75]. **Scattering** [GH70, Las76, Mar71d, Mar72d, Mar73e, Mar74d, Mar76a, Mar76d, MC74, Mor79, OP74, Set71]. **Scheme** [Ber70a, Buc70, CS77a, Laa71, MBN79, WC73]. **Schemes** [Nol75a, Nol78]. **Schmidt** [Ano78n]. **Schottky** [Dra72b]. **Sciences** [Bel76]. **Scientist** [Ano77f]. **Scientists** [Ano78a]. **Scrambler** [Lee73]. **Scramblers** [GH75]. **Scrambling** [KJ77]. **Sealed** [AOR76]. **Sealing** [PB75]. **Seals** [DS70, SSV70]. **Second** [Bra70, Lue72, Ros72]. **Second-Harmonic** [Bra70]. **Second-Order** [Lue72]. **Section** [Mar74c]. **Sectional** [MSW77]. **Segment** [Kan70]. **Seismic** [LN72]. **Selected** [DC78]. **Selection** [FGW73, Gar72]. **Selective** [Bab72, LR79, Rum79, SG77]. **Selectively** [Bab73]. **Self** [And75b, Neu71]. **Self-Resonant** [And75b]. **Self-Synchronizing** [Neu71]. **Semi** [Gib78]. **Semi-Markov** [Gib78]. **Semiconductor** [BS70b, CS71, DPR77, FYMS78, Laa71, Lew70, LW70, Wah77, WM70]. **Semideterminate** [Aha79]. **Semilattice** [Ben73]. **Sense** [Dar70, Hwa79]. **Sensitive**



[Bro70, Dah72]. **Sensitivities** [But71]. **Separation** [CM78, MS73b]. **Separations** [Bis71a]. **Sequence** [FM73]. **Sequencer** [ALW79]. **Sequences** [CH72, Jay74, Rif79]. **Sequential** [Gar72, Neu71]. **Sequentially** [Aha78c]. **Serial** [Lun70]. **Series** [Gol73, PK70]. **Served** [Coo70, Hef73]. **Server** [GM77]. **Service** [AHP79, AFS79, BDJ79, BH71, BDRP79, Bob73, BJO78, BPW79, BGH79, CHPT79, CSL79, Col73, Cra71, DVW79, Des75, DPZ79, EFW79, Fis79, FP79, FR79, HS78b, Huf79, Kuc73a, Kue79, Mac79, Nea72, RSS79, SH79, SVW79, Tsi79, Wal79, You79, YBBW79]. **Serving** [Fre78]. **Set** [CSW71, Fis79, GS71b, Mea75, Rif79]. **Sets** [HY71a]. **Sever** [Has72, MRM78, MRR79]. **SG** [AHK<sup>+</sup>78, BEST78, BCD<sup>+</sup>78, CGS<sup>+</sup>78, CDD<sup>+</sup>78, EFG78, FYMS78, HLL78, MAGS78]. **Shape** [GS70]. **Shaped** [GM73]. **Shapes** [MSW77]. **Shaping** [Mue73]. **Shared** [Aca79]. **Sharing** [Aca78, Bou78, CK78, Cro78c, DHM78, Fra78, Has72, JR78, JL78, KLO78, LMT78, LB78, Lyc78, LC78, MPT78, MCM78, NP78, Pek78, RT78, Rit78, RJLK78, Rov78, Tho78, WSS78]. **Sheath** [AGW77]. **Sheathed** [GGL<sup>+</sup>77]. **Shelf** [HR73]. **Shell** [Bou78]. **Shielded** [Len77a, Mil72]. **Shift** [BS72a, Eis72, MCC73, MC73]. **Shifted** [Tow75]. **Shifted-Companion-Form** [Tow75]. **Shifters** [CRS75]. **Shifting** [KT73]. **Shock** [Liu74]. **Shop** [BP70]. **Shore** [LTV70]. **Short** [AR79, Bar71, BR74, Bro71c, FM75, MG75, Osb71, RSSF78, Sha72]. **Short-Haul** [Bro71c, MG75]. **Short-Holding-Time** [FM75]. **Short-Hop** [Sha72]. **Short-Term** [Bar71]. **Short-Time** [AR79]. **Shot** [Ric70]. **Sided** [Mea75]. **Sight** [Bab72, Bar70, Gil75, Gra70b, Rut71, SOP73]. **Signal** [ADM78, BZ74, BS70a, Ber70b, Blu72, Bos72, FGW73, Gre74, Jay74, KL73, Lin71, MM71b, MS79c, Nol75b, RP75, Wyn78]. **Signal-to-Noise** [Nol75b]. **Signaling** [BKT78, BPW79, CSL79, CMR78, CFMS78, CS78, DR78, KCM<sup>+</sup>78, Lit78, Maz75a, MW78b, Mue75, RM78, Sna78]. **Signals** [AC78, AS70, Bri71, Bul71, BHO71, CHM73, Eis72, FG78, GHM73, Gla71a, Has75, JR72, Log77, Pea72, Pra76, RC76, Shn70, Tho73a]. **Silence** [RSA77]. **Silica** [Dab75, KA74, SDMS77]. **Silicon** [BS70a, CLB75, MHSS78, Mil78, Sch70, Sch78, Wag70]. **Simple** [Che76, CRSB77, Fri78, GW74, Per73a, Slo76, Som73]. **Simplified** [Oga77]. **Simulation** [LR79, SRB79, Wad78b]. **Simulators** [CES74]. **Simultaneous** [Fal76a, MM79a, Sem74]. **Sine** [Bud73]. **Sine-Wave** [Bud73]. **Single** [Aha72c, Ano79l, Arn74b, BKS71, CBK79, CT79, CMG73, Cum75, GM77, KA74, KG76, Laa70, Mar74f, Mar76b, Mar77b, NMW79, RSSF78, RC78, Som73, SH74]. **Single-Chip** [CT79]. **Single-Error** [Aha72c]. **Single-Fiber** [RC78]. **Single-Integration** [Cum75, Laa70]. **Single-Material** [Arn74b, KA74, Mar74f, SH74]. **Single-Mode** [CMG73, Mar76b, Mar77b, Som73]. **Single-Substrate** [BKS71]. **Single-Tone** [KG76]. **Singularity** [LW70]. **Sinks** [Arn74d]. **Sinusoids** [Gol74]. **Site** [EFW79]. **Size** [Jay75b]. **Sizing** [Els77]. **Slab** [Ano70k, Mar74a, Mar70c, Mar71b, Mar71d, Mar72e, Mar73b, Mar77c]. **Slab-Coupled** [Mar74a]. **Slope** [Gre73, JR71]. **Slow** [FGM78]. **Small** [And75a, Blu72, DG79, Las76]. **Small-Signal** [Blu72]. **Smearing** [Ber70a]. **Smoothing** [SG77]. **Software** [AHP79, BDG<sup>+</sup>77, BGH79, CCR<sup>+</sup>77, CFG<sup>+</sup>77, Con75, DG75, Fre75, MRY77, MW75, SVW79, Van75a, WP75]. **Soil** [Beb72, Con72a, Con72b, Dah72, DeC72, Kle72, Kwe72, Min72, Ven72]. **Solidified**

[DSS78, SDS78]. **Solids** [Kau74]. **Solution** [KL73]. **Solutions** [Blu78, MM72a]. **Some** [Ber70a, Cox75, Des76, GS75, GH70, Hwa76, Jag74, Kai71, LS71, Maz71, Maz79b, MM72a, MNW78, Nag71, NPM77, Pra71, RKHD74, Tho71c, Wil71, Wil72]. **Sound** [DMK78]. **Sounds** [IF72]. **Source** [CM78, GW74, Lim73, Llo77, Wit79]. **Sources** [Mar75b, SW73]. **Space** [Bab73, Vig70, Whi75, Pen70, Rus78, Vig75, Wri71]. **Space-Diversity** [Vig70, Vig75]. **Spacer** [Sch78]. **Spacing** [Lee71, Lun71]. **Spare** [Sch71]. **Spatial** [CPS71, PL71]. **Spatio** [Bud73]. **Spatio-Temporal** [Bud73]. **Speaker** [MRM78, MRR79, RW79, Ros76, SR75]. **Speaker-Independent** [SR75]. **Speaker-Trained** [RW79]. **Speaker-Verification** [Ros76]. **Special** [Pfe79]. **Specially** [Aha75]. **Speckle** [Bur70]. **Spectra** [Gla71a, Liu71, PR74]. **Spectral** [Aca78, AR79, Bos72, Den76, Nea71b, Pra76]. **Spectrum** [Gre74, Jay77, Laa70, Maz79b, Rif79, RP75, Tho77b, Tho77a]. **Speech** [ACG79, Aha78a, Aha78b, Aha78c, ADM78, AS70, Bra72, CWF76, Cro77, CGRS77, CS77a, CJF73, DC78, DC79, FRSD72, FIS75, GMN76, JR71, JR72, Jay74, Jay75a, Jay77, JC79, KJ77, MSG78, MRM78, ML79, Nol75a, Nol75b, RSF71, RSA77, RSCG77, RSR74, SJ76, Sca79, SR71, SRH75, Sen70, SJS79, TNMC79, WHF77]. **Speech-Encoding** [Nol75b]. **Speed** [BKKM71, FH71]. **Spelled** [RS79]. **Spherical** [Tur75]. **Spherical-Reflector** [Tur75]. **Spheroidal** [Sle78]. **Splice** [CRAC79, Met79]. **Splices** [CGBS75, Dab75, DS73, GSBC73, Glo76, Mar77b, Mil75b, Mil76b, MM78b]. **Splicing** [CR76, Mil78, SBGC75]. **Spoken** [RS79]. **Spot** [Aca77, Aca78, RY77]. **Spot-Beam** [RY77]. **Spread** [Maz79b]. **Spread-Spectrum** [Maz79b]. **Spreading** [Arn74a, BM71]. **Spurious** [Doa78, MS79c, Sch74]. **Square** [FF73, Mar74c, Mue75, Sal73]. **Squared** [Cho74, GW79]. **Squaring** [Maz78a]. **Stability** [Bar71, Bau72, Ben71b, DeB72, Dra72b, Ger72, Maz78b, Rei72, San78b, Sha70, WR73]. **Stable** [Stu76a, Stu76b]. **Stage** [Hwa79]. **Stalpeth** [BY78]. **Standards** [Cra71]. **Start** [Cha71, CH72]. **Start-Up** [Cha71, CH72]. **State** [Bel78, BY78, Mar76e, MM78a]. **States** [Ben78, DMNT75]. **Static** [DeB72]. **Station** [CSW71, CSL79, GS71b, Lee71, LOOS77]. **Stationary** [IZ70, Sle72a]. **Stations** [BDK78, CFP70, Ohm74]. **Statistical** [BKS71, Bal76, BGM<sup>+</sup>71, But71, CK71, Cha73, DC71, DL78, Eck78, Gol74, HY71a, Kar71, Lin71, Lin73, LF72, Log71, MCM78, O'N71, Ols71, RSA77, SWD71, SJS79, SK74]. **Statistics** [Fan76, Lin76b, Lin77a, Lin78, Per71b, Per71c]. **Steady** [Bel78, Mar76e, MM78a]. **Steady-State** [Bel78, Mar76e, MM78a]. **Steep** [MM79b]. **Step** [AEH<sup>+</sup>70, Boy76, BN71, Jay75b, LMY76, Mar76b]. **Step-and-Repeat** [AEH<sup>+</sup>70]. **Step-by-Step** [BN71, LMY76]. **Step-Index** [Mar76b]. **Step-Size** [Jay75b]. **Steps** [Ben71b]. **Stess** [TKN74]. **Stimulated** [Bri71]. **Stochastic** [FR79, Ger72, Hel79, Liu70]. **Storage** [KSBL74, MMF70, TKN74]. **Store** [AAS70, BCKM70]. **Stored** [Aha78a, BCKM70, DKP<sup>+</sup>70]. **Straightness** [Glo75]. **Streams** [Nea71a]. **Stress** [BY78, ES77]. **Stresses** [Kau74]. **Strip** [Ram74, WM70]. **Strip-Loaded** [Ram74]. **Stripline** [SS74]. **Structural** [Kle72]. **Structure** [Cha71, CLB75, DG75, Mar73e, PB75, PSMO75, Wit79]. **Structured** [Nic75]. **Structures** [Bau72, Con72a, FM79, Kog76, LN72, Liu74, PB74, Sch73]. **Studies** [GS75, OTW71b, TKN74, YBBW79]. **Study** [Bab72, DM78, Gra70a, HS72a, Ken70, Mit75, Nol75a, O'N71, Ols71, Pen70, Spa76].

**Studying** [Fri78]. **Stuffing** [Buc70]. **Styles** [Rai79]. **Sub** [CWF76, Cro77, Cro78a].  
**Sub-Band** [Cro78a, Cro77]. **Sub-bands** [CWF76]. **Subharmonic** [SS74]. **Subjected** [BY78]. **Subjective** [CB72, CHS76, DC78, GMN76, GSC<sup>+</sup>79].  
**Submarine** [AOS70, Bre70, Cha70b, Wah77].  
**Subsampling** [Bob74, Pea72]. **Subscriber** [Fis79, Koo78b, Lap76]. **Subscriber-Loop** [Lap76]. **Subspaces** [Maz77]. **Substrate** [AD79, BKS71]. **Substrates** [MM79a, Mat70]. **Subsystem** [BPW79, CSL79, HS75a, HHM<sup>+</sup>74, PSW70].  
**Sulfate** [BW70a]. **Sum** [Gol74]. **Sun** [Lun70, Wri71]. **Sun-Transit** [Lun70].  
**Superconcentrators** [Chu79b].  
**Superimposed** [Kno77]. **Supply** [BNO74].  
**Support** [BCKV74, Con75, Mar73e, Rov78, Sna78, Tsi79]. **Suppression** [Aha78b, BBL72, Gre74, Seq72, WN72].  
**Suppressor** [MB71]. **Surface** [Ano78n, CS77b, DO79, KWP72, LW70, MSW77, WM70]. **Surface-Acoustic-Wave** [Ano78n, CS77b]. **Surfaces** [BM71, Gra72].  
**Surveillance** [TAB74]. **Survey** [BKKM71, DT71, FH71]. **Switch** [Cro78b, Des76, PK70, RS76].  
**Switch-Count** [Des76]. **Switched** [ABLR77, ADM78, BKKM71, DT71, FL79, FH71, FMSZ78, HS71, Lak79, Ric70].  
**Switches** [GAW<sup>+</sup>76, LW74, Maz71].  
**Switching** [AOR76, AB78, BBJM<sup>+</sup>77, BCD<sup>+</sup>77, BS76, BGK72, BG72b, Bre71, BN71, BS71, BHKJ74, CHPT79, Che71, CH77, CGL71, DL76, Fan78, GAW<sup>+</sup>76, GP71, GBN<sup>+</sup>76, GS74b, HW76, HO77, KLS76, Kle76, KU76, Kro72, KT73, Kru76, LMY76, LM70, Laa71, OTW71a, OTW71b, Pie72, Sto76, Uri71, Wag71].  
**Switching-System** [BHKJ74]. **Symmetric** [DSS78, Kur70]. **Symmetrical** [HL78].  
**Symmetries** [Ben78]. **Symmetry** [Dra78, Goo74, RM72]. **Synchronization** [Cha72, SZ75]. **Synchronized** [Mor71].  
**Synchronizing** [Neu71]. **Synchronous** [Ho71, MS75b]. **Syntactic** [Lev78]. **Syntax** [LRF78]. **Synthesis** [FIS75, IF72, Kan70, Lak79, Liu70, RSF71, Sze73, Zuc74].  
**System** [AHP79, AAS70, AOS70, AR79, ABH77, AE70, ALM74, AGW77, ACTW77, AHK<sup>+</sup>78, ALS71, ACKL74, Ano74k, Ano75n, ACG78, AB78, BCS71, BBJH<sup>+</sup>77, BGK70, BNO74, BZ74, BDJ79, BJJ71, BKL75, BBCC75, BDRP79, BBJM<sup>+</sup>77, Bou78, BCDT77, BS76, BW71, BCM<sup>+</sup>74, Bre70, BEST77, BP70, Bro71a, BCD<sup>+</sup>78, BPS75, BFR75, BBJST77, BPW79, BCKV74, BSS78, BM78, BDN<sup>+</sup>77, BGH79, BHKJ74, BKY70, BWW74, CG70, CGS<sup>+</sup>78, CGHW74, Cha72, CSW74, Cha70b, CHK<sup>+</sup>74, CHM<sup>+</sup>77, CSL79, CCWW74, CK78, Cok72, CGWN77, Con75, CDD<sup>+</sup>78, Cro75, Cro78c, DJNP74, DR78, DJ75, DVW79, DW78, Dic75, Die71, Doa78, DHM78, DM75, DCRZ70, DG75, DSW71, DO79, DPR77, EFG78, Ele77, EG70, Fan78, Fen71, FR75, FP74, FHT77, FYMS78, Fra78, Fre75, FMSZ78, GOS74, Gaw75, GHWY77, GS73a, Giu71, Gol77]. **System** [GS74b, GGL<sup>+</sup>77, GH77, Hag75, HS75a, HM74, HJ71, HNW77, HLL78, HL79, HW76, HS71, HR73, HST70, HP72, Her70, HO70, HY71b, HJ75, HHM<sup>+</sup>74, HP70, Huf79, HJJ<sup>+</sup>77, ILR75, Jac78, JJ70, JP71, JR78, JL78, KH74, KW78, KLO78, Koo78b, Kro72, Kuo75, LS70, LRF78, LOOS77, LW74, LMT78, LO77, Lun70, LB78, Lyc78, LC78, LTV70, MMM75, MSW78, Mau74, MRR79, MPT78, MCM78, MHSS78, Mes75, Mil70, MG78, Mor71, Mor70, MAGS78, MW75, MP78, NP78, Nic75, Ols71, Ols75, Pek78, Phi75, PR73, RY77, RSS79, Rif75, RT77, RT78, Rit78, RJLK78, Ros76, Rov78, RC78, RBH77, SZ75, SR75, SRB79, SRMC78, SW71a, Sha72, SCD78, SBR78b, Sna78, SK75, SH79, SVW79, Sto76, Sul71, TAB74, Tho78, Tho77a, Van75a]. **System**

[Van75b, WMLT70, WR73, War77, Whi75, WP75, WA74, WSS78, YBBW79, And71, Ano76a, Ano76b, Ano76c, Ano76d, Ano76e, Ano76f, Ano76g, Ano76h, Ano77a, Ano77b, Ano77c, Ano77d, Ano77e, Bai71, BH71, Bre71, Bro71a, Bro71c, BHP71, Bro71b, BHO71, BS71, CSW71, Cra71, Das71, Dor71, DPS71, Eck78, FG71, GS71b, GRW71, Kes71, KFBL70, MM71b, OBW70, Pfe79, SSV70, Uri71, WP71]. **Systems** [Aca78, Aca79, Aha79, ABG<sup>+</sup>77, Aun73, Bre71, BN71, BCKV74, Bul75, Cap72, CW73, CH72, Che71, Chu71b, Chu73, CR71, CR72, CGRS77, Das71, Des75, DG75, Dra74, FF73, Fal76b, Fal78, Fos71, FGS75, FR79, GS71a, Gol73, Gop71, GRW70, GRW71, GH70, HHJ71, Hef73, Hen73a, Ho71, KN72, Kue79, LMY76, LC70, Log78, Lun71, MNS78, MP71, MRM78, MRR79, Mue73, Nea72, NK73a, NK73b, Nol75b, Osb71, Per73a, Per73b, Per73c, Per73d, Per74, Per76, Pra70, Pra71, RJ72, RSCG77, Rai73, Rao78, Rei72, Ric70, Ric73d, Rov78, Rut71, San78b, SS78, Sha70, SCD78, TG76, Tsi79, Van75b, VP79, YH71].

**T** [Lue72, Mos70]. **T1** [Bri78]. **T2** [O'N71]. **Table** [BG72b]. **Takagi** [CH78a]. **Talker** [BGM<sup>+</sup>71, CHS76]. **Tandem** [CGRS77, Cro78a, GSC<sup>+</sup>79, RSCG77]. **Tangent** [LC70]. **Tap** [GW79, Wyn75b]. **Tap-Weight** [GW79]. **Tape** [CGBS75, PSW70, Slo76]. **Tapered** [Ano70k, Mar70c]. **Tapes** [BS75a, Dah72, SBGC75]. **Target** [BS70a]. **TD** [Bro71a]. **TD-2** [Bro71a]. **TDMA** [Aca79]. **TE** [CM77, Mar76a]. **TE-Wave-Scattering** [Mar76a]. **Technique** [AD76, Bis71b, CH74, Goo74, Jag78, MS75b, Pea72, PMN78, SBGC75]. **Techniques** [Aca78, Ano79l, Apr75, Bob74, BGM<sup>+</sup>71, BS75b, Cus70, FHT77, HS72a, HMG70, MNW78, NMB76, NMB77, NMW79, Ols71, Rab72, RW79, Tho77b, Tho77a].

**Technology** [BCE<sup>+</sup>77, KCM<sup>+</sup>78, MM75].

### **Telecommunications**

[Ano76h, BKKM71, DT71, FH71].

### **Telephone**

[Ben71a, Bra71, Bri71, CSW71, CHS76, CHPT79, CRSB77, Das71, DO79, DMNT75, FRSD72, FR73b, FMSZ78, Has75, Hol71, Jag75, KN78, LM70, Liu74, Lue70b, Mea75, MS79c, Mor78a, Par78b, Pfe79, RSA77, Ros76, SRB79, SK74, Sul71, Wag71, Wal79].

### **Telephone-Quality** [RSA77]. **Telephones**

[BDK78, BBW78, BS78, BJO78, BDS78, CR78, FW78, FMSZ78, GR78, HS78b, MW78a, Rod78]. **Telephony**

[Bel76, Jay75b, LP71]. **Teletraffic** [Wil71].

### **Teletypewriter** [CFP70]. **Television**

[Ber70b, CFHM71, CPS71, LPW74, NR79, PL71, Pea72]. **Temperature**

[CF79, Daw72, Rai76, TKN74]. **Temporal**

[Bob74, Bud73, PL71]. **Ten** [Wah77].

### **Tendem** [Osb71]. **TEon** [Doa78]. **Term**

[Bar71, Lin77a]. **Terminal** [BCD<sup>+</sup>77, BCD<sup>+</sup>78, CD79, Kur70, LTV70, Mau74].

**Terminals** [BDK78, BBW78, BS78, BJO78, BDS78, CR78, FW78, FGM78, FMSZ78, GR78, HS78b, MW78a, Rod78]. **Terrain**

### [Gil75]. **Terrestrial**

[Bul75, GH70, HGLM77]. **Test** [ACTW77, BS76, Cha74, CHM<sup>+</sup>77, DPZ79, Fis79, Gar72, HY71a, Len77a, MOR<sup>+</sup>77, Wal79].

**Testing** [BGK70, BG72a, DM75, FR75, GS73b, HST70, HMSV77]. **Tests**

[Beb72, Con72a, Con72b, Dah72, DeC72, HO70, Kle72, Kwe72, Min72, Ven72].

### **Tetrabasic** [BW70a]. **Text** [MCM78]. **TH**

[ALS71, BCS71, BJJ71, BW71, CGL71, Die71, DSW71, Fen71, Giu71, HJ71, JP71, KS71, SW71a, SW71b]. **TH-3**

[ALS71, BCS71, BJJ71, BW71, CGL71, Die71, DSW71, Fen71, Giu71, HJ71, JP71, KS71, SW71a, SW71b]. **The-Off-The-Shelf**

[HR73]. **Their** [Dra72a, Owe72, RC78].

**Theorem** [Ben75c, CH78a, Kai71, SW73].

**Theorems** [San70a, San70b, Wil70b].

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