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#4396 [LH86]. **#4571** [Hur83c]. **#4666** [Hur83c].

-2001 [TPWW92].

1 [BRG+87, Nap00, O'N91, Rob87, Wad00]. **10/18/51** [McC83d]. **100th** [Kis91]. **130th** [Kis91]. **15** [Hus84]. **155** [Ano80c]. **162** [Ano83l]. **16th** [Gol77]. **1835** [Van83]. **1940** [Ano82d, CWM+91, RB85]. **1940s** [PAD82]. **1944** [ML87]. **1945** [TDCKW84]. **1947** [Ano48, Har85a, RWSW85, Ste85b]. **1950s** [Bac80]. **1952** [Ano83-31]. **1955** [Ano86c]. **1959** [Ano85f, Ano85i, Cli85]. **1960** [Ano85f, Aue86a]. **1960s** [TPG+89, Ver90]. **1961** [HEA+83]. **1967** [Tro87]. **1978** [Ano82d]. **1980** [LP81, RS80a]. **1981** [RS80a, Wal81]. **1982** [ABE+83, Lee84b, TWA+87]. **1983** [Bur81]. **1984** [CK82b, Kin87]. **1985** [CMF+90]. **1987** [Blu87, MN88a]. **1987/88** [Ano87b]. **1988** [GIS90]. **1988/89** [Ano88c]. **1989** [WCB90]. **1990** [BDA91, CW91, TLR+91]. **1994** [MM97]. **19th** [Gol77].

2 [Lec90, Wei85a]. **2-B** [BSEW83, Wei85a]. **20th** [BHB+89, CWM+91, CW91, Cha91b, Nor90, Tro87]. **218** [BRS+89]. **21st** [MN88b]. **232** [Ano81e]. **25** [dBDvdR71]. **256** [Ano80b]. **25th** [AW82, Gal86c, Lee85, ML87, TDCKW84]. **279** [Ano80b]. **293** [Ano81e].

30 [Tro87]. **30th** [O'N91]. **360** [Eva86, Pug84].

40th [MHW87]. **41** [Ano80c].

500 [Sta90]. **5000** [BBC+87, Bem87, BRG+87, BGR88, Gal87a, LK87, Oli87, Ros87].

60th [TLR+91]. **650** [Gal86d, Gla86, Hae86, HK86, Her86, Hug86, Hur86a, Knu86, PV86, SN86, Tri86]. **6600** [Tho80b].

7 [AJ83]. **701** [Ano83-36, Hur83a, Joh83, LS83, Roc83b, Ryc83, Smi83, Swe83, Voo83b]. **701A** [Ano83y, Amd83]. **7080** [Bas83]. **7880s** [WSC+88]. **7950s** [WSC+88].

'82 [AW82, Wil82].

9 [BFB82]. **93** [Ano80c, Ano88b].

A. [BSS84, KT80a, O'N91, RWSW85, SS80, TDCKW84, VBCC83, WTE+85]. **A.M.** [TWCD86]. **Abacus** [Ano83-34, Wei89a]. **ABC** [Ste84]. **Above** [WTE+85, Ber84, Ber87]. **Account** [BCKS+83, Fra81]. **ACE** [Ano83l, AWL+88, CK81, Hus84, TA81, TWCD86, Wil80b]. **achievements** [Asi72, Asi82]. **ACM** [AWB+88, Bur81, MN88a, Mil86, O'N92, Wex93, Ano80e, Blu87, BHB+89, CK82b, O'N91]. **ACM'80** [WR81]. **Active** [TPG+89]. **Activities** [Amo90, Bur81, McC83a, Noh84, Sam79, Sam80]. **Activity** [Ano80c, Ano83l, CK80a, CK80b, CK81]. **Ada** [ASS87, AFB+89, HG79, ZT86, Bau86, Moo77, Ste85a, WMS+89]. **Addendum** [AMTC80]. **Adelle** [OLCJ91]. **Admiral** [O'N92]. **Adriaan** [WZ89]. **Advanced** [Asp00, Big80]. **Advances** [Sny80]. **Advent** [Ata84, Ran82a]. **Adventure** [Ray89]. **Adventures** [BFB82]. **Advertisement** [Ran83]. **Advertising** [AdB86]. **advisability** [Mer82]. **Aeronautical** [CCR+91, Lub91, Vin90, Vin93]. **AFCET** [Hof90]. **AFIPS** [CK82b, Gal86c, Ano83-33, Ano83-34, Ano86b, AAA+86, Car86b, Rec86, Sam79, Sam80, War86, WHG+86, Wei91c, WSC+88]. **African** [CFK+91, FG90]. **After** [MM88]. **Afterword** [Bac84a, Ano82d]. **Against** [TMRL89]. **Age** [Ele81, SWT+81, WSC+88, Asi64, Ber84, Ber87, BL82, Cer89, Coh00, Jen90, Mor84, PS91, BSS84, CKSW83, CCKSS90, CW91, WTE+85]. **aid** [Zus82a]. **Aids** [Ano86p, Cra92]. **Aiken** [BHW+90, AA85b, Coh88, Coh00, Ran82b, WH84]. **Air** [EZB83, WSC+88]. **Aircraft** [Ano83i, RMV82, Ama83, Ano83d, Por83]. **Aitken** [TTG82]. **Al** [Zem79, CFK+91, LTC+81, LB81, SR82, Tro82b, CKSW83, SZ84, Zem79, CH90]. **al-Khāwarizmi** [CH90]. **Al-Khorezmi** [Zem79, CKSW83, SZ84, Zem79]. **al-Khwarizmi** [CFK+91]. **Alamos** [Voo83a, Ano83n, BFB82, Mac91, MN82, Swe83, TTB+88, Voo83b]. **Alan** [CK84, TDCKW84, Asp80, Hod83a, Hod83b, Hod85, Hod00, Lea05, MJ84, Pet08, THWV88, WTZ90]. **Albers** [GMT85]. **Albert** [Buc83]. **Alexander** [AW89, TTG82]. **Alexanderson** [GMT85]. **Alfred** [Add84, RB85]. **Algebraic** [Ata82]. **Algorithmic** [dBvV81a, GG92, Tro82a, Wel80, Zem83, dBvV81b]. **Algorithms** [Tra84, Zem79]. **Alice** [Ano82d]. **Allies** [AWL+88, WTE+85, Koz84a, Koz84b]. **Allocation** [Bau90, Gol84, Sak84]. **Alto** [ACM00, AWB+88]. **Alwin** [dB86]. **America** [RWSW85, ARE+87, Bac80, McM84, PW82, PW84b, PWA92, Rei81]. **American** [All91, CMF+90, Str83, Kid90b, Yat89]. **AN/FSQ** [AJ83]. **AN/FSQ-7** [AJ83]. **Analog** [BS84, Tom85a, Lan00]. **Analysis**

[Ano81e, AG89, Gol77, Sma46, Tra66, RS80a, SWT+81]. **Analytical** [CCR+91, Lub91, Ran82c, Vin90, Vin93, Bab82b, Bro82, Lud82, Mer82, Ran82k]. **ancient** [Asi72, Asi82]. **Andahl** [Ano83-34]. **Andrew** [CK84]. **Andrews** [LS82]. **Andri** [WG90]. **Anecdotes** [AA85b, Ano84d, Aus81, BH81, BFB82, Buc81, Car86a, Dou79, FL86, GM85, Gre91, Hus85, Kes80, Nag80, SWT+81, Sha89, Ste84, SHH81, TTG82, Tho80a, THWV88, TD88, TBS88, TTB+88, TMRL89, TLR89, TPG+89, TBGE89, TBB90, TKE90, TBLJ90, TD90, TLR+91, TG91, TWPP91, TPWW92, Tro83a, TB84, Tro84, TW87, TWA+87, Zem83, vdPWB82]. **Angeles** [Ano83-32, Mil86]. **Annals** [Ano86i, Ano79b, Ano80a, Ano81a, Ano81d, Ano81c, Ano81h, Ano83-29, Ano84f, Ano84g, Ano85g, Ano86j, Asp88, CK82b, EM88]. **Anniversary** [AW82, BHB+89, Cer80, CFK+91, Fin84, Kis91, ML87, O'N91, SZ84, TDCKW84, Tro87, WD85, Gal86c, Lee85, MHW87]. **Annotated** [Asp87, Lee84a, Ran79, Pet08]. **Announced** [Buc83, Ano83-33]. **Announcement** [Ano83e, Ano83f, Ano83o, Ano86a]. **Announcing** [Bem87]. **Answer** [CS85, Kes86, TS85]. **Answers** [Ano83g, Ano83h, Ano83-37, Ano83-38, Ano84m, Ano84n, Ano84o, Ano84p, Ano85n, Ano85o, Ano85p, Ano85q, Ano86r, Ano86s, Ano86t, Ano86u, Ano88f, Ano91a, Ano91b, CS85, Lee91e, Sam87a, Sam87b, Sam87c, Sam88a, Sam88b, Sam88c, Sam88d, Sam89a, Sam89b, Sam89c, Sam89d, Sam90a, Sam90b, Sam90c, Sam90d, Sam91c]. **Anti** [RMV82]. **Anti-Aircraft** [RMV82]. **Antiaircraft** [BS84]. **Anticipation** [BHW+90]. **Antonin** [Obl80b]. **APL** [FI78, Fra84, Fra85, SS80]. **Appendix** [Wil79]. **Apple** [CW91, Ros89]. **Application** [Ano83p, TWA+87, Asp00]. **Applications** [Ano86p, RGB83, Tor82b]. **Applied** [Cur89a, Cur89c, BRS+89, McC83a]. **appointed** [Mer82]. **Appoints** [Ano83-33]. **appraisal** [Ste81]. **Appreciation** [Knu86]. **Approach** [Bar87]. **Approaches** [Sam91d, Tra84]. **April** [Kin87, Wex93, Ano83z]. **archaeological** [Lay89]. **Architect** [Roc83b]. **Architecture** [Ano83q, Smi88, Cer00, Roj00, Spe00]. **architectures** [RH00, RH02]. **Archival** [CCR+91, Col91, BH89d]. **Archive** [WSC+88]. **Archives** [Ano79c, CCR+91, Cor90, Rei91, WSC+88, Wil89, Wil90, All91]. **Argonne** [Chu80]. **Arithmetical** [Bus82]. **Army** [BGH+91, Hil91]. **arranged** [Asi64, Asi72, Asi82]. **art** [Kin87, AWB+88]. **Arthur** [Ano82d, WT91a, WWCP92]. **Article** [BB82, Phe82]. **Articles** [Bur81]. **Artifact** [O'N92]. **Artifacts** [All91, Sei00]. **Artificial** [AMW+88, Blo87, Cop04, MK89b, FM83, FM84a, McC79]. **arts** [All91]. **Ascent** [CW91, HB90]. **Asimov** [BCKS+83, Asi64, Asi72, Asi82, CFK+91]. **Aspray** [SE86, CFK+91, CW91]. **Assembler** [BH81]. **Assemblers** [McC83c]. **Assembly** [Cou82b, McC83b, Swe83]. **Associate** [Ano83-33, Ano83-34]. **Associated** [Ano83-36]. **Associates** [TC79, Tom80]. **Association** [AWB+88, Tro87]. **Astrahan** [Wei89a]. **Atanasoff** [AMW+88, BRS+89, BHW+90, SZ84, BGH+91, BB88, BB91, Bur06, Gus00, Lee91f, Mol88, Smi10, WR81]. **Atlanta** [PAD82]. **Atlas** [Sum00]. **Atomic** [Amo90]. **Augarten** [ZT86]. **August** [Tro87, Ano86c]. **Augustus** [Fut07]. **Austin** [TLR+91]. **Australasia** [Tee83]. **Australia** [WCB90]. **Australian** [CFK+91, Pea88]. **Author** [Ano81a, Ano88e, BB82, Mor86]. **Authority** [Amo90]. **Authors** [Ano80d, Ano81g, Ano82c, Ano82i, Ano83-30, Ano83-39, Ano84h, Ano84q, Ano85h, Ano85r, Ano86k, Ano86v, ABE+81]. **Auto** [Bei75]. **Auto-** [Bei75].

Autobiographical [WCB90]. **Automata** [Asp90d, CFK+91]. **Automated** [Mac87]. **Automatic** [AH82, Aik82, AWL+88, Ben91, Bla80, CWM+91, DW82, Hus80a, Hus80b, Sti82a, TMRL89, Zus82a, Har46, Har85b]. **Automatics** [MZ88, Tor82b]. **Automation** [BW84, WSC+88]. **Autoscritcher** [Cra92]. **Available** [Ano79c, Nut84]. **Aviation** [Ano83a, Str83]. **Aviators** [McC91]. **Award** [Ano81i, Ano82e, Ano83-33, BGH+91, BB91, Lee91f, Ano80e, Ano81j, O'N91]. **Awarded** [Ano83-35, Cer80]. **Awards** [Ano83-34, O'N92, RS80a, Bur81].

B [BBC+87, BSEW83, BRG+87, BHB+89, CW84, Gal87a, Mer82, RWSW85, Ros87, Wei89b, WTZ90, Bem87, LK87, Oli87, Wei85a]. **B-5000** [BHB+89]. **B.** [CKSW83]. **B.C** [CCKSS90]. **B.C.** [Van89, Van91a, Van91b]. **Babbage** [All91, AFB+89, BCKS+83, BHW+90, BH88, CW91, Gul80, MN88b, SBET85, SHH81, WSC+88, Ano81b, Ano82f, Bab82b, BH89a, Bro82, Bro87, BRG+87, BWV+88, BHB+89, BHW+90, BDH90, CK88, CSW90, Coh88, Dub78, Fra81, Fra84, Fra85, GG92, HH80, HG79, Hym82a, Hym82b, Hym88, Lin87, Lin90, Mer82, Nag80, OLCJ91, Rob87, Swa91, Swa01, Tee83, THWV88, TW87, Van80, Van83, VBCC83, VW91, Wil81a, Wil91a, Wil91b, Wil81b, Wil87]. **Back** [ARE+87, Asp90a, CW91, KK85, WS86, Wil85e]. **background** [Zem79]. **Bakker** [Tro82b, Tro82a]. **Ballistic** [Jul82]. **Banned** [Asp85a, SE86]. **Banquet** [BH81, SWT+81]. **Bardeen** [WT91a, WIR91]. **Barry** [CW91]. **based** [Sco94]. **BASIC** [KK85, WS86]. **Basics** [Asp90a, CW91]. **Basis** [CCKSS90, Mol89]. **battle** [Bur03]. **Baum** [VBCC83]. **Bay** [Tro83b]. **BBC** [CDW92]. **Be** [Asp85a, SE86]. **Bech** [Aue84]. **Before** [CFK+91, Mil85, Asp90b]. **Began** [Val85]. **Begin** [Ano83-34]. **Beginning** [CLBdB89, Lay89]. **Beginnings** [Amo90, Luk90, WR81]. **Begins** [Ano83-33]. **Beika** [SS80]. **being** [Fut07]. **Bell** [BSEW83, Alt82, And82, Ano82a, Ano86w, Ber84, Ber87, Ran82d]. **Below** [TTB+88]. **Beniger** [AWB+88]. **Bennett** [CWM+91]. **Berkeley** [Wei88a]. **Bernstein** [WTE+85]. **Berry** [Gus00, Ber86]. **Bertram** [WTZ90]. **BESM** [BC90]. **Best** [Fut73, PW82, PW84b, PWA92]. **best-run** [PW82, PW84b, PWA92]. **Bethesda** [Blu87]. **Bettis** [Bri79]. **Between** [Bau80, Sch85]. **Beyond** [Cer89, CCKSS90, Wat90, WP00, WSC+88]. **Bibliography** [Asp87, Lee84a, Ran82e, Ran82f, Ran79, Ran80b, Zus80a]. **Bicentenary** [CFK+91, FG90]. **Bijker** [CCKSS90]. **BINAC** [Spr80, Ste79]. **Binary** [Joh83, Phi82]. **Biographical** [BCKS+83, RWSW85, Asi64, Asi72, Asi82, BWC83a, BWC83b, BWC83c, CK85]. **Biographies** [AS82, Mil85, Ula82, Wei82, Wei88a, Wei88b, Wei88c, Wei88d, WZ89, Wei89a, WK89, Wei89b, WTZ90, WG90, WCB90, WT91a, Wei91c, WIR91, Wei91b, WWCP92, BHW+90]. **biography** [CFK+91, Smi10]. **Birth** [Kis91, Lec90, Str85, SS80, Tak72, TC79]. **Birthday** [VW91, TLR+91]. **Bit** [Aug84, CWM+91, TTB+88, ZT86, Gro91b, ZT86, TB84]. **Bits** [BBB59, Luk79, BCKS+83]. **BKVAC** [AMTC80]. **Blaise** [MK89b]. **Blaise-Pascal** [MK89b]. **Bleackley** [CKSW83]. **Bletchley** [Sal00, Cop06, Goo79, Goo80]. **Bloomfield** [AMW+88]. **Blueprint** [Wal81]. **Blum** [CCR+91, Smi91]. **Blunder** [BFB82]. **BNAC** [AMTC80]. **BNF** [BHW+90]. **Bob** [O'N92]. **Böblingen** [O'N92]. **Boeing** [Por83]. **Bombe** [CFK+91, DK90]. **Bombsight** [CCKSS90, Sea89]. **Bones** [Wil83]. **Book** [BRS+89, Hawxx, CCR+91, Cer91a, OLCJ91, CCKSS90]. **Books** [CCKSS90]. **Boole** [TSD+87, Mac83]. **Boolean** [MM80]. **Born** [MK89a]. **Boschan**

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E. [LS82, TDCKW84, WTE+85]. **E.T.** [Lec90]. **Early** [All84, And82, Ano79a, Ano80c, Ano83l, Ano85f, Ard86, AG89, Bac84b, Bau80, BP84, Ber86, Bri84, BEG+87, BWV+88, BG88, BDA91, BGH+91, Bül90, BHMU85, CK80a, CK80b, Cer81, CW91, Dij80, ESB80, GL81, Goo79, Gro91a, Hug84, Hur81, Hur85, Hus91, Kes80, KT80b, Lav80b, Lav80c, Mau84, MKR82, McC91, McC84, McP84,

Med88, MN82, MJ84, MK90c, Nor90, Phe80, PCJ85, Raj80, RBZ82, Sam85, San82, Sch81, Sti80, Sue80, Tak86, TBB90, WMS+89, WCB90, Wil80a, WSC+88, Jon89, Phi89, Roj00, Ano80b, BSEW83, BWV+88, CK81]. **Eckert** [GMT85, MHW87, Ste81]. **Eckert-Mauchly** [Ste81]. **Ecological** [BHB+89]. **Economic** [AWB+88, Ben86, FMM83]. **ed** [Ano88d, ARE+87, AMW+88, AWL+88, AWB+88, CSW90]. **Eden** [CW91, Ros89]. **Edited** [Hur81]. **Editor** [Ano83c, Ano83q, Ano83p, Ano83o, Ano83r, Ano83s, Ano83t, Ano83u, Ano83v, Ano83w, Ano83x, Ano83y, Ano83d, Ano83a, Ano83b, Ano86a, Ano86h, Ano86f, Ano86g, Ano86p, CCR+91, Cer91a, GGB85, Str65]. **Editorial** [Ano81f]. **Editors** [Ano88a]. **Edmund** [Wei88a]. **Edouard** [KTW84]. **eds** [AWL+88, CCKSS90, CMF+90, WLC86]. **EDSAC** [Ano79c, CK80a, CK00, Dou79, PV86, WR82, Wor82]. **Edsger** [TLR+91]. **Education** [Ano83m, BWK88, Hop87, Ros84a, RWSW85]. **Educational** [Her86]. **EDVAC** [Mau82a, SW80, vN82]. **EDVAC-type** [Mau82a]. **Edvard** [AFB+89, CW91, Lin87, Lin90]. **Edward** [Ber86, BH89c]. **Edwards** [Bur81]. **EE** [RWSW85, Ros84a]. **Effects** [Hug86]. **effektivnogo** [PW86]. **Effort** [Arm80]. **efforts** [SS10]. **Eighteen** [Gru80a]. **Eisler** [CW91]. **Election** [TD88, TD88]. **Elections** [TD88]. **Electric** [Hol82a, Gro83, TBS88, TBLJ90]. **Electrical** [ARE+87, HHE82, Ste85b, WS86, WSC+88, McM84, OLCJ91, WL85]. **Electromechanical** [Tor82a]. **Electronic** [AMW+88, Ata84, BMC81, BB81, BGvN82, GG82, Hol82b, LS83, Lec90, MHS82, RMV82, Ran82a, Ran81, Ran82k, Ran82m, Sch90, ST82, SW80, Ste80a, SS80, Svo80, Tak72, Tom85a, WK82, Ano80b, BB88, CKW85, Lan00, Luk79, Pet00, Phe80, Sto82, Wil85e]. **Electronics** [Aus81, Cer88, Ele81, WCB90, Zus82b, SWT+81]. **Electrons** [Eck82]. **Elegance** [Tho80a]. **Eloge** [Add84, Aue84, Aue85, BKM84, Bro81, FW88, LS82, Obl80b, Phi81, WZ89, WWCP92, Zem82]. **Emergence** [Dav84, Hei84]. **empresas** [PW84a]. **Encounter** [Por83]. **Encyclopaedia** [McN90, McN96]. **Encyclopedia** [BSS84, BCKS+83, CFK+91, RM76, Ral76, RR92, RR83, RRH00, Tom87, Asi64, Asi72, Asi82]. **End** [CW91, Ste84, Ros89]. **Ending** [Ray89]. **Energy** [Amo90]. **Engine** [BCKS+83, BRG+87, Rob87, Swa91, Bab82b, Bab82a, Bro82, Coh88, Fra81, Ran82k, Swa01, TBGE89, TW87]. **Engineer** [TPG+89, WWCP92]. **Engineering** [Ano83i, Ano83s, Ano86h, ARE+87, Ste85b, TPG+89, WMH82, WS86, Hal09, McM84, OLCJ91, RR83, WL85, BSS84, OLCJ91, TC79, Tom80, WSC+88]. **Engineers** [CCR+91, Lub91, Sto82, Vin90, Vin93, O'N92]. **Engines** [AFB+89, BSS84, Bro87, CW91, Ran82c, Shu84, Shu96, Lin87, Lin90, Wil91a]. **ENIAC** [Ran81, TDCKW84, VBCC83, BEG+87, Bur80, BB81, BB82, Eck80, GG82, Led82a, Led82b, Led83a, Led83b, Led83c, Led83d, Mau80, MHW87, McC01, Phe82, Ste80d, Ste81, TB84, VTAA00, WG82]. **Enigma** [Ano81e, AWL+88, CK84, CWM+91, Eni90, WTE+85, Hod83a, Hod83b, Hod85, Hod00, BEG+87, Cop04, Cra92, Koz84a, Koz84b, Rej81, TDCKW84, Wel82]. **Enough** [CFK+91, DK90]. **Entering** [BL82, CKSW83]. **enterprise** [MR85a]. **Enters** [CCKSS90, TBS88, Cer89]. **Entrepreneur** [CCKSS90, RH88, RH90]. **Epilogue** [Eve83b, Gal87b, Hur83b, Hur86b]. **Equation** [LS83]. **Equations** [Ata82, Hun86, MRFS87]. **Equipment** [All91, Ano83-36, CCKSS90, O'N91, RH88, RH90]. **ERA** [AMTC80, TC79, Tom80]. **Errata** [Ano88b]. **Erratum** [Wei91d].

Error [SBET85, Tho79, Tho83]. **Error-Correcting** [SBET85, Tho79, Tho83]. **Errors** [BDH90, MW80, MW72]. **Ershov** [KT80a, WG90]. **Erwin** [Ano81i, OLCJ91]. **Esq** [BH88]. **essay** [MHR85]. **Essays** [KTW84, MHR80, Tor82b, MHR85]. **Essential** [Cop04]. **Esser** [CB90, Otn89]. **Established** [Ano82e]. **Estados** [PW84a]. **estimate** [Mer82]. **etc.** [Fut07]. **ETH** [Spe00]. **Eugene** [BH89c]. **Eulogy** [Arm80, Ton80]. **Europe** [Bau80, MK89a]. **European** [BWV+88, O'N92, Zem80]. **Evans** [LTC+81, O'N92]. **Evolution** [Bro87, CCKSS90, Cou82a, SS80, TKE90, Wel80, FI78, IEE89, Shu96]. **Examined** [BS84]. **excelencia** [PW84a]. **excellence** [PW82, PW84b, PW85, PWA92, BCKS+83]. **Excerpts** [SWT+81]. **Exchange** [RS80a]. **Execution** [Zus82a]. **Exhibit** [Bur81, Lee84c, CW84]. **Exhibition** [BRG+87, OLCJ91]. **Expands** [Hur86a]. **Expectations** [TW87, Wil91a]. **expense** [Mer82]. **Experience** [Bri84, Her86, Tom87, CWM+91]. **Experiences** [Ano83r]. **Experimental** [Sch90]. **exploring** [PS91]. **Expressions** [MM80]. **Extent** [Tor82b]. **Eyewitness** [TBGE89].

F [Fut07]. **F.** [CW84, Hei91, SBET85]. **F.R.S** [Fut07]. **F.R.S.** [BH88]. **fabric** [Sta85, Sta89, CCKSS90]. **Factory** [Cus91]. **Facts** [Cun85b]. **failed** [Gla91]. **Failure** [AFB+89, CW91, Lin87, Lin90]. **Falkoff** [SS80]. **Fall** [WTE+85, OD84]. **family** [Hop00]. **Fang** [CB90]. **Farr** [Mer82]. **Fast** [TD88]. **Father** [CFK+91, Wat90, WP00, Coh88, Mol88]. **Fauvel** [CFK+91]. **Favorite** [TPWW92]. **February** [Ano85f]. **Federal** [Pet83, Ree85]. **Feigenbaum** [TDCKW84]. **Fellowship** [Ano81j, Bur81, CK82b, RS80a, OLCJ91]. **Fernando** [O'N91]. **Fernbach** [WIR91]. **Festkolloquiums** [Gra73]. **Few** [CLBdB89, Cun85b, Lun87]. **Feynman** [Wei88b]. **Field** [Knu86]. **Fieldata** [Hum87]. **Fifteenth** [CFK+91]. **Fifth** [Asp85a, Fin84, SE86, TDCKW84, FM83, FM84a]. **Fifty** [OLCJ91]. **Film** [Ano79c, Ano79d, Lee84c]. **Final** [HEA+83]. **Finerman** [Bur81]. **Fire** [HHE82, RMV82]. **Fireside** [Ano82d]. **First** [Ano80c, AMW+88, AW89, BH81, BMC81, BS84, BGR88, BB81, CCKSS90, Haw88, Hol82b, Lee86, LA91, Mar80, McC01, Por83, Ran81, Rec86, Ros83, RGB83, SW80, Swa01, TTB+88, TLR89, TWPP91, WMS+89, WWCP92, vN82, BL82, BRG+87, BB88, Bur00, Hor82, Oko00, RH00, RH02, SA88, Wil85e, Wil00, AFI72, vdPWB82]. **Fisher** [CW84]. **five** [ARE+87, Wil85e]. **Flamm** [CMF+90, AWB+88, ACK89]. **Flew** [Ver90]. **Flight** [BRG+87, CCKSS90, Cer89]. **Florence** [WCB90]. **Flowers** [WG82]. **Floyd** [O'N92]. **Fontana** [RWSW85, BWC83a, BWC83b]. **force** [Tra84]. **Forester** [SR82]. **Forester.** [CCKSS90]. **Foreword** [Boo81, Fin79]. **Forgotten** [Aus82, Mol88]. **form** [Wil91b]. **Formal** [Gre81]. **Formative** [Von89]. **Forrester** [Eva83d]. **Fort** [Ano83c]. **FORTRAN** [Ada84, All84, AW82, Bac79, Bac84b, Bem84, Bri79, Bri84, BDH90, Dav84, Gol84, Gre84, Hei84, Hug84, KTW84, Knu84, Lee84a, Lee84c, McC84, Noh84, RL81, Ros84b, Smi84, Tro84]. **FORTRANSIT** [Hem86]. **Forty** [CWM+91]. **Founders** [AAA+86]. **Founding** [MB80]. **four** [Ers80]. **Fourier** [BHW+90]. **France** [CW91, Ano89c, BGR88, MK90b, MK90c, Ram89, Ver89, WSC+88]. **Franksen** [BCKS+83, SBET85]. **Frederick** [Buc83]. **Free** [BW91]. **French** [BMK90, BGH+91, Hil91, Hof90]. **Frenkel** [CFK+91]. **Friedrichs** [Buc83]. **Friend** [BDH90]. **Front** [Ano83z]. **Frontiers** [TLR+91]. **FSQ-7** [AJ83]. **Fuller** [Mer82, CFK+91, FG90]. **Fully** [Tom85a]. **Fumbling** [AW89, SA88]. **Function** [Kle81].

Functional [Bar87]. **Fungus** [CW91, Jen90]. **Further** [BDA91, McC83b]. **Futrelle** [BCKS+83]. **Future** [AW89, Zem90a, Zem90b, KK85, SA88, Sob86, Wil85e, TSD+87].

G [GMT85, LS82, LTC+81, Phi81, WG82, WS86, Hus84]. **G-15** [Hus84]. **G.** [BCKS+83]. **G1** [Hop00]. **Galler** [Ano80e]. **Gallery** [WSC+88]. **Game** [Mac92b, Mac92a, Mac99]. **Gamma** [Lec90]. **Garcia** [WCB90]. **Gardner** [AWL+88]. **GAT** [Ard86]. **General** [BSEW83, BB81, Ran81, Sam79, MHS82, Gro83, Ryc83, TBS88, TBLJ90]. **General-Purpose** [BSEW83, BB81, Ran81, MHS82]. **Generation** [Asp85a, SE86, FM83, FM84b, FM84a, Wil00, TDCKW84]. **Genese** [CW91, MK90b]. **Genesis** [BP84, Wil86]. **Genius** [Mac92b, Mac92a, Mac99]. **geological** [Sma46]. **Georg** [AFB+89, Lin87, Lin90]. **George** [TSD+87, Hol82b, Mac83, Wei88b, Wei89a]. **Gerdes** [CFK+91]. **German** [AWL+88, WTE+85, Bül90, Cra92, Gra73, Koz84a, Koz84b, Sal00, Zus80b]. **Germany** [O'N92, Pet00, Zus80c, dB86]. **Geschichten** [Bül88, CWM+91]. **gestionadas** [PW84a]. **Giant** [Aus82]. **gift** [Coh88]. **Given** [McC83e]. **Glaisher** [Mer82]. **Glory** [AFB+89, CW91, Lin87, Lin90]. **Glossary** [Bou89]. **Glushkov** [PAD82, Zem82]. **GMD** [Bur81]. **Go** [Dav84]. **Godfather** [Ran82j]. **Goldberg** [Wei89a, CSW90]. **Goldstein** [Wei89b]. **Goldstine** [Ano81e, SWT+81]. **Good** [CLBdB89, Lun87]. **Goode** [Aue86a]. **Gordon** [Wei89b]. **Gorn** [WWCP92]. **Göttingen** [Hop00]. **Government** [AWB+88, ACK89, Nor90, WSC+88, Fla87, Fla88, CW91]. **Grace** [O'N92]. **gradual** [BMK90]. **Graduate** [Sha89, TPG+89]. **Graef** [Ano80c, Buc80b]. **Grants** [O'N92]. **Graphical** [ARE+87, dO86]. **Great** [Fut76, Gor86, Hal09, Asi64, Asi72, Asi82]. **Greece** [Asi64]. **Grenoble** [Kun90, MK90a, Ver90]. **Grist** [FW88, Wei88c]. **Grosch** [CWM+91]. **Group** [HEA+83, O'N92, Roc83a]. **Groups** [BDA91, TBB90, Tho79, Tho83, SBET85]. **Guard** [THWV88]. **Guide** [CCR+91, Col91, Rei91, BH89d, Cor90, For81, MM82, Sto82, CCR+91]. **guided** [Pet08]. **Guidelines** [Ano80d, Ano81g, Lee91g].

H [Ano81e, Ano82d, Ano83-31, Aue86a, BCKS+83, Buc80a, GL81, SWT+81, SBET85, Wei88b, WG82]. **H.** [BCKS+83, CKSW83, SWT+81, SS80]. **Hack** [TPWW92]. **Hackers** [Lev84, Lev85, WTE+85]. **Hairdressers** [GG90]. **HAL** [TPWW92]. **Half** [AFB+89, Her88, Her95]. **Half-Century** [AFB+89, Her88, Her95]. **Hall** [CW91, WSC+88]. **Halpern** [Wei91d]. **Hamilton** [Tod80]. **Hammer** [Ano82d, CK82b]. **Hamming** [Cer80]. **Handbook** [dLB07]. **Hanf** [WTZ90]. **Happenings** [Lee87c, Lee89e, Lee90d, Lee90e, Lee90f, Lee90g, Lee91h, Lee91j, ML87, MHW87, MN88a, MN88b, MZ88, MM88, Mau89, O'N91, OLCJ91, O'N92]. **Happy** [VW91]. **Hardware** [Hus00, Mor84]. **Harold** [Bro81]. **Harrar** [CCKSS90]. **Harriett** [WTZ90]. **Harry** [Aue86a]. **Hartree** [Ano88b, WTE+85, AWL+88, Med88]. **Harvard** [Ano48, Ano82f, AWL+88, Coh88, Sam91a, WH84]. **Hawkhill** [CCKSS90, Hawxx]. **Hazen** [Bro81]. **heels** [Hal91, Wei91d]. **Heinz** [Tro85]. **held** [GIS90]. **Helm** [Ano82d]. **Helmut** [Lan00, Tom85a]. **Hempstead** [GIS90]. **Henle** [WZ89]. **Henry** [Ano82d, CFK+91, Coh88]. **Heppenheimer** [CW91]. **Herbert** [BDA91, Wei88a]. **Heritage** [Tee83]. **Herken** [AFB+89].

Herman [Aus82, Kis91, Ton80]. **heroes** [Lev84, Lev85]. **Hexadecimal** [BRG+87, BEG+87]. **High** [ACK89, CCKSS90, CCR+91, CW91, Col91, For87, Mau82b, Nor90, vN81a, BH89d, Fla88, Pen89, Pen90, Sei00]. **High-Speed** [vN81a]. **High-Tech** [CCKSS90, For87, CW91, Pen89, Pen90, Sei00]. **high-technology** [BH89d]. **Highlights** [Ros84c]. **Hinsley** [SBET85]. **historian** [Cer00]. **historians** [Sto82]. **Historic** [Ano79d, Pet08]. **Historical** [Ano83-33, Bas82, CCR+91, Col91, Gre91, MM80, Smi88, TG91, WT91b, WT91c, All91, BH89d, Sei00, Ano83-35]. **Historiography** [May80]. **History** [ACM00, Ano79b, Ano80a, Ano81a, Ano81d, Ano81e, Ano81c, Ano81h, Ano81k, Ano82g, Ano83-29, Ano84f, Ano84g, Ano85g, Ano86b, Ano86i, Ano86j, Ano89c, AW82, Asp87, AWL+88, AWB+88, AW89, AJ83, Aug84, Bac79, Bei75, BHP87, Blu87, BD90, BRG+87, BRS+89, BHW+90, Bül90, Bur81, CK82b, Car86b, CSW90, CCKSS90, CMF+90, CCR+91, CFK+91, Cha80, DKK+98, EM88, Gol88, GH85, Gru79, Gru80a, Gru80b, Gul80, Led82b, LTC+81, LB81, Lee91g, Leh80, LA91, Lub91, Mah88, MN88a, McC84, McN90, McN96, MHR80, MW80, Nas90, O'N92, OH84, Pai90, RWSW85, Rei91, RL81, Ros84c, SWT+81, Sam79, Sam80, Sam85, Sam91d, SR82, Smi91, Ste79, SH79, Sue80, SS80, Tro80, TA81, TSD+87, Wex81, Wex93, Wil79, Wil82, Wil85b, Wil85c, WSC+88, Zus80c]. **History** [dLB07, de 84, Asp00, Bur03, CK89, Cor90, FMM83, Gar85, Gar87, Gol77, KK85, Kis00, Lay89, LT89, Luk79, MKW92, McC79, MW72, MHR85, OLCJ91, Pea88, RS80b, RH00, RH02, Sam91a, Shu84, Sma46, Ste80d, VTAA00, Vin90, Vin93, Wil85d, Wil97, Win98, All91, Ano81i, Ano82g, BSEW83, BWK88, CCR+91, CFK+91, Fla91, RS80a, TDCKW84, WSC+88]. **Hocheiser** [CCR+91, Col91]. **Hodges** [TDCKW84, CK84]. **Hoelzer** [Lan00, Tom85a]. **Hofstra** [GIS90]. **Hollerith** [Aus82, Kis91, RA86]. **Home** [THWV88]. **Honor** [CK82b, WR81]. **Honorary** [Cer80]. **Honored** [Tro85]. **HOPL** [BH81, O'N92, Wex93, Ano81j, SH79]. **HOPL-II** [O'N92, Wex93]. **Hopper** [O'N92]. **Hord** [BCKS+83]. **House** [UV81]. **Howard** [AA85b, Coh00, WH84]. **Howell** [CLBdB89]. **Hughes** [CCKSS90]. **Hull** [CKSW83]. **Human** [CCKSS90, Cer91b, Sta85, Sta89]. **Huskey** [WT91a]. **Husson** [TDCKW84]. **Hut** [BCKS+83, Wel82]. **Hyman** [VBCC83, CSW90]. **Hypergrowth** [OD84, WTE+85].

I. [BCKS+83]. **I/O** [GM85]. **IBM** [Ano80b, Ano83z, Aus81, CW84, CMF+90, GM85, Hur83c, MKR82, Noh84, TDCKW84, TSD+87, Ano83-27, Ano83-36, Ano86o, Bas83, BEG+87, BWK88, CW84, FMM83, FW85, Gal86d, Gla86, Gor86, GGB85, Hae86, HK86, Her86, Hug86, Hur80, Hur81, Hur83a, Hur83c, Hur86a, Joh83, Kil88, Knu86, LS83, LH86, Lee84c, Mas83, O'N92, Phe80, Pug84, Ran82b, RBZ82, Ryc83, ST82, SN86, Smi83, SS10, Sob86, Swe83, TD88, Tri86, Ver89, Voo83b, Wat90, WP00, WCB90]. **ICL** [CFK+91, CK89, Fla91]. **Ideas** [CW91, Pen89, Pen90, Per86, TKE90]. **identification** [BW91]. **IEEE** [WSC+88, CCKSS90, O'N92]. **IFIP** [FL86, Aue86b]. **Ignored** [AW89, SA88]. **II** [O'N92, Wex93, Bac79, Hei84, Phi89]. **II.vi.5** [CH90]. **III** [Bac79]. **Illiac** [BCKS+83, Rob80, Hor82]. **illustrate** [Sma46]. **Illustrated** [Aug84, CCKSS90, Tim89]. **Illustrations** [Sam91d]. **image** [AF85, CFK+91]. **Impact** [Ano88b, AWL+88, Gre84, WTE+85, For81, Har47a, Har84, Wil85e]. **implementation** [MM82]. **implementations** [KTW84, Knu84]. **implications** [Sco94].

Important [Tak80]. **Impossible** [SHH81, TTB+88, Str65]. **Impressions** [Bac80, AWB+88, Cad86]. **Inaccessible** [Gre91, TG91]. **inaugural** [Har47a]. **Inc.** [TC79, Tom80]. **Inca** [Asc83]. **Incident** [TLR89]. **Increase** [Ano83e, Ano83f]. **Index** [Ano81a, Ano82b, Ano83-28, Ano83-29, Ano84f, Ano84g, Ano85g, Ano86i, Ano86j, Ano87b, Ano88c, Ano88e, Ano88f, Ano88g, Ano88h, Ano89d, Ano90, Ran82f, Ran82h, Tim89, CCKSS90]. **Indexes** [Ano81h, MHR85]. **Indices** [Ano88g]. **industrial** [Ben91, CWM+91, Pet00]. **industries** [Ben91, CWM+91, Dor87a, AFB+89]. **Industry** [ACK89, Bou90, Ben91, BL82, CWM+91, FMM83, Fla88, Pug84, CW84, WTE+85]. **Influence** [Mac91, Ste80a, HT79, HH79, Zem79]. **Informatica** [dBDvdR71]. **Informatics** [Blu87, BD90, Bou90, Kun90, MZ88, Ram89, Smi91, Tro82b, CCR+91]. **Information** [Ano81k, Ano83-28, Asp85b, AWB+88, Aus82, CLBdB89, CMF+90, CW91, Gre91, Gul80, O'N92, TG91, WTE+85, WK89, WSC+88, Zem90a, Zem90b, dLB07, Ben86, Ber84, Ber87, For87, LT89, OLCJ91, Pen89, Pen90, Per87, BSEW83, SN86]. **informatique** [CW91, MK90b]. **initial** [Wad00]. **Inmos** [AWL+88, MR85a, MR85b]. **Innocence** [CW91, Ros89]. **Innovation** [AWL+88, AFB+89, Dor87a, Ele81, CW91, MK90b, PB87, SWT+81]. **input** [Wad00]. **inquiry** [McC79]. **Installation** [Ama83, Ano83t, Ano83w, Cha83, MP83, Ros83, Til83, Zus80b]. **Institut** [MK89b]. **Institute** [GIS90, Gul80, MN88b, Obl80a, WSC+88, All91, Asp00, Big80]. **Institution** [O'N92, WSC+88, All91]. **institutional** [BMK90]. **Institutionalization** [Ada84]. **Institutions** [McP84, Coh88]. **Instructions** [Ano82c, Ano83-30, Ano84h, Ano85h, Ano86k]. **Instrument** [BGvN82, Ben91, CWM+91]. **Instruments** [Ano88b, AWL+88, Har49, WTE+85, Wil83, Har50, Har53, Har84]. **Integrator** [GG82]. **Inteligenz** [CWM+91]. **Intelligence** [AMW+88, Blo87, Cop04, MK89b, SBET85, FM83, FM84a, HT79, HH79, Hin93, Hod85, McC79]. **Intelligenz** [Bül88]. **Interaction** [Ula80]. **Interest** [O'N92]. **Intermediate** [Ano85i, SC85]. **Intermediate-Range** [Ano85i, SC85]. **International** [Asp86, AWB+88, BH89b, CMF+90, OLCJ91, dBvV81b, CF89, Fla87, dBvV81a]. **internationally** [BGR88]. **Internet** [Win98]. **Interpolator** [Ces82]. **Interpreter** [Ano86w]. **Interview** [TBLJ90, TWA+87, WTZ90]. **Interviews** [BH89c, AA85a]. **intricate** [Fut07]. **Introduction** [Ano82d, Eva83b, Lee85, Ran82g, TBS88, TWA+87, Wil88, WSC+88, Yau86]. **introductory** [MHR85, Sma46]. **Invented** [AW89, SW80, Bur03, Smi10, SA88, Sne11]. **Inventing** [BMC81]. **Invention** [BRS+89, Hei91, Kis91, TTB+88, Wei85b, Hal09, Lea05]. **inventor** [Lan00]. **Inventors** [Bül90, CLBdB89, Nat88]. **Inventos** [LTC+81, San80]. **Invested** [Car86b]. **Invited** [Ano83-33]. **Involvement** [WSC+88]. **Inyokern** [Til83]. **IPM** [DW82, dB86]. **Irving** [TWA+87]. **Islamic** [AA85b]. **Issue** [Ano84a, Ano84b, Ano84c, Ano85a, Ano85b, Ano85c, Ano85d, BDH90, Eve83a, Gal79a, Gal79b, Gal80a, Gal80b, Gal80c, Gal80d, Gal81a, Gal81b, Gal81c, Gal81d, Gal82a, Gal82b, Gal82c, Gal82d, Gal83a, Gal83b, Gal86c, Gal86a, Gal86b, Gal87a, Hur83a, Hur86a, LT84, Lee87a, Lee87b, Lee88a, Lee88b, Lee88c, Lee88d, Lee89a, Lee89b, Lee89c, Lee89d, Lee90h, Lee90a, Lee90b, Lee90c, Lee91a, Lee91b, Lee91c, Lee91d, TDCKW84, Wei91a, Lee85]. **issued** [OLCJ91]. **Italian** [BG88]. **IV** [BCKS+83, Hei84, Hor82]. **Ivar** [Aue84]. **Iverson** [SS80].

J [BCKS+83, CKSW83, CW84, GMT85, Mer82, O'N91, TWPP91, Tro82a, Tro83a, WTE+85, WTZ90]. **J.** [BCKS+83, Eva83c, HG79, LTC+81, SWT+81, Tro82b, Tro82a, WTE+85, WG82, WS86]. **J.C.R** [CW91]. **Jacobs** [BKM84]. **Jahre** [Gra73]. **James** [GND+87, Wei89a]. **Jan** [Wei89b, WTZ90]. **January** [ACM00, Ano48, AWB+88, Har85a, Ano85f]. **Japan** [AFI72, Bei75, Tak72, TSD+87, AFI72, FM83, FM84a, Sob86, Sue80, SS80, Tak86]. **Japanese** [Oko00, Tak80]. **Jay** [Eva83d]. **Jennings** [CW91]. **Jersey** [MN88a]. **Jessie** [WCB90]. **Joel** [BSS84]. **Johann** [AFB+89, CW91, Lin87, Lin90]. **John** [TTG82, Asp80, Asp89a, Asp89b, Asp90c, Asp90d, BH81, Bri89, BH89b, CMR+83, FW88, GIS90, Haw88, How88, Mac92a, Mac92b, Mac99, Mau84, Smi10, Ste80a, Ste80b, SZ84, Tod80, Ula82, Von89, Wei88c, Wei89b, WT91a, WIR91]. **JOHNNIAC** [Gru79, Wil79]. **Johnson** [TBLJ90]. **Jointly** [Ano48]. **Jonathan** [TTB+88, Wei85b]. **José** [WCB90]. **Joseph** [BHW+90, WWCP92]. **JOSS** [BH81, Mar82]. **Journal** [TDCKW84, Ano83-33, FW85, GGB85]. **Jr** [BSS84]. **Jule** [Phi81]. **July** [Ano85f]. **June** [ABE+83, Aue86a, GIS90].

K. [Buc80a, GL81, Hei91, WS86, WLC86]. **Kapera** [CWM+91]. **Kawasaki** [CB90]. **Kelly** [Fla91, WLC86, CFK+91]. **Kemeny** [Ano83-34, WS86]. **Ken** [CCKSS90, RH88, RH90]. **Kennedy** [Mer82]. **Kent** [Wei89b]. **Keuffel** [CB90, Otn89]. **Keyboards** [CFK+91, Mar90]. **Khāwarizmi** [CH90]. **Khoresm** [Zem79]. **Khorezmi** [Zem79, CKSW83, SZ84, Zem79]. **Khwarizmi** [CFK+91]. **Kidder** [Dor82]. **Killen** [CMF+90]. **King** [AWB+88]. **knew** [Lea05]. **Know** [CCR+91, Ham80, Lub91, Vin90, Vin93]. **Knuth** [CFK+91, AS82]. **Knutsen** [Hei91]. **kompanii** [PW86]. **Konrad** [Buc80a, Bau00, Cer80, Cer81, Cza79, Pet00, Roj00, Spe00]. **Kozaczuk** [WTE+85, AWL+88]. **Kruh** [CFK+91, SE86, CCKSS90]. **Kuhn** [CW91]. **Kunstliche** [CWM+91]. **Kurt** [Buc83]. **Kurtz** [O'N92, WS86]. **kuüstliche** [Bül88].

L [Buc83, GMT85, HG79, Mer82, SWT+81, SR82, SE86, Wei89a, WT91a, WS86]. **L.** [Ano83-31, Tro83a]. **Laboratories** [Alt82, And82, Ano82a, Ber87, Cur89a, Cur89c, Mac91, Ran82d, Ryc83]. **Laboratory** [Ano48, Ano83l, AWL+88, Pai90, CK81, CK87, Chu80, Kis83, Noh84, Voo83a, Wil80b, WH84, WD85]. **labours** [BH88]. **Labs** [WTE+85, Ber84]. **Lady** [SHH81, HH80]. **Lake** [Til83]. **Lambda** [Ros84c]. **Lambda-Calculus** [Ros84c]. **LaMotte** [Ano83-31]. **Language** [Sak84, Sam91d, SN86, Wel80, KK85]. **Languages** [Ano85f, CB90, Gre81, KT80b, O'N92, SH79, Wex93, dBvV81a, Nij88, Wex81, dBvV81b, Ano85f, dBvV81a, SWT+81, SR82, Tro82a]. **LaPrairie** [CKSW83]. **laptop** [Sco94]. **Large** [Ano48, AWL+88, Ata82, Ben83, Cur89b, Har47b, Har51, Har85a, Kis91, MHS82, vN81b, vN88]. **Large-Scale** [Ano48, AWL+88, Har47b, Har51, Har85a, MHS82, vN81b, vN88]. **Late** [TPG+89, BH88]. **Later** [Zem90a]. **Lavington** [GL81]. **Law** [THWV88]. **Lawrence** [WD85, Kis83]. **leading** [Pug84]. **Learning** [CCKSS90, Hawxx, Tra66]. **Lebenswerk** [WLC86, Zus70, Zus84]. **lecciones** [PW84a]. **Lecture** [CK82b, TA81, WG82, Har47a, TWA+87]. **lectures** [CKW85, Ers80, KT80a, PAD82, WLC86]. **Ledger** [TDCKW84]. **Lee** [Bur81, SWT+81, WWCP92, CCKSS90].

Legacy [GIS90, Ste85a, AFB+89, ZT86]. **legal** [Bur03]. **legitimate** [Moo77]. **Leslie** [TTG82]. **Lessons** [AFB+89, Dor87a, PW82, PW84b, PWA92]. **Letter** [Ano83-31, Hur83c, LH86, Str65, TWA+87, Van83, Knu84, Ano82d]. **Letters** [ATF+88, GCL83, Led83a, Led83b, Led83c, Led83d]. **Levy** [WTE+85]. **Lewis** [Wei89a]. **li.vi.5** [CFK+91]. **Libraries** [O'N92]. **Library** [Blu87, CFK+91, CH90, Wil81b]. **Licklider** [CW91]. **Life** [AFB+89, BHW+90, CW91, Cop04, Sim91, TSD+87, Wat90, ZT86, Zus93, BH88, Eis89, Gro91b, Mac83, Ste85a, WP00, CCKSS90, CDW92, CWM+91]. **Lilley** [CMF+90]. **Limits** [CCKSS90, WSC+88, Cer89]. **LINC** [RS82]. **Lindgren** [WS86, AFB+89, CW91]. **Linear** [Ata82, BRS+89, BHW+90, Dor84]. **Linkages** [Svo80]. **Linsman** [WTZ90]. **List** [O'N92]. **Literature** [ARE+87, ASS87, AMW+88, AWL+88]. **Livermore** [Kis83, WD85, Hug84, Mac91]. **lives** [Asi72, Asi82]. **living** [Asi64]. **LL.D** [Fut07]. **Load** [Dav84]. **Load-and-Go** [Dav84]. **Loader** [Joh83]. **Locke** [Bro81]. **Lockheed** [Ama83]. **Logarithmic** [GG90]. **Logarithms** [CK88]. **Logic** [Ano81i, Cop04, Asp80, Ano82g]. **Logical** [Asc83, BGvN82, Tra66]. **Logical-Numerical** [Asc83]. **London** [Boo80, RS80a]. **Look** [Zem90a, Zem90b]. **Looking** [ARE+87, Wil85e]. **looks** [Cer00]. **Louis** [Ram89, WTZ90]. **Lovelace** [HH80, HG79, Moo77, SHH81]. **Lucas** [KTW84, Wil83]. **luchshikh** [PW86]. **Ludgate** [Ran82k]. **Lugano** [Kin87]. **Lukoff** [BCKS+83, Ton80]. **Lundstrom** [CLBdB89].

M [Ano80c, AWL+88, BCKS+83, CW84, Eva83c, GL81, HG79, O'N91, PAD82, SBET85, WLC86]. **M.** [Buc80b, SS80, TDCKW84, WLC86]. **M.D** [Fut07]. **MacDonald** [Wei88a]. **MacHale** [TSD+87]. **Machine** [Aik82, Alt82, AWL+88, AWB+88, AFB+89, Ata82, Aus81, Bus82, Cou82b, DK85, Gor86, Haw88, Kes80, Kid81, Kid90a, Kid97, Kin87, LS83, MK89b, Ree85, SE86, THWV88, Tor82a, WTE+85, Cra92, Fut07, FKK08, Fut59, Her88, Her95, Koz84a, Koz84b, PS91, BCKS+83, BHB+89, CDW92, Dor82, Fut73, Fut76, Lud82, Mer82, Pet08]. **Machinery** [AWB+88, CW91, Cha80, Har85a, Nor90, Sti82a, Ano48, AWL+88, Har47b, Har51, Tro87]. **Machines** [Ano79a, Ano80c, Ano88b, AWL+88, Bur81, CFK+91, Cou82a, Gra73, Har49, Hei91, Kid90b, KT80a, Mau82a, McC79, Sch82, WTE+85, de 84, vN81b, vN88, AF85, Har47a, Har50, Har53, Har84, MKW92, OLCJ91, Roj00, AWL+88, Buc80b, Obl80a, RWSW85, WTE+85]. **Macintosh** [CB90, Kaw90]. **MacWilliams** [WCB90]. **MAD** [TTG82]. **MADDIDA** [TWA+87]. **Made** [MK90c]. **Madrid** [KTW84, San82, Tom88]. **Maestro** [CFK+91, Mar90]. **Magnetic** [HK86, Tri86]. **mainframes** [Shu96]. **Maintenance** [Cha83]. **Major** [CCR+91, Rei91, Cor90]. **Making** [ARE+87, CMF+90, Coo83, Kil88, McM84]. **Man** [CFK+91, AF85, Lea05, Smi10]. **Management** [Bei75, Mac87, Ben91, CWM+91, Yat89, CMF+90]. **Managing** [CW91, Pen89, Pen90]. **Manchester** [Ano80c, BMC81, Bur00, CK80b, Lav80a, Nap00]. **Mancke** [CW84]. **MANIAC** [Ano79d, Met80]. **Manned** [Tom85b]. **Manual** [Ano83i, Ano83n, Ano83-27, Ano86o, AWL+88, Har46, Har85b, Ano83-36]. **manufacturing** [Pet00]. **Many** [CFK+91, Mar90]. **Marcel** [WTZ90]. **Marian** [BEG+87]. **Mark** [Ano80c, BMC81, Nap00, Wei91d, CK80b]. **Market** [AFB+89, Dor87a, Phi89]. **Marketing** [AdB86, BGR88, Smi83]. **Marks** [WT91b, WT91c]. **Marling** [CFK+91]. **Martin** [Fla91]. **Maryland**

[Blu87]. **Masani** [Ano88d, AWL+88]. **Maschine** [Bül88, CWM+91]. **Massachusetts** [Wex93]. **Master** [Ben91, CWM+91]. **Masthead** [Mil85]. **Material** [Ste80c]. **Math** [BRS+89]. **Mathematical** [AA85a, Ano88b, AWL+88, Bab82a, GMT85, HG79, McC83a, McP42, Obl80a, OH84, Sha45, Sha48a, Sha48b, WTE+85, WMS+89, dBvV81b, vdPWB82, AAR90, Asp80, Dub78, Har47a, Har84]. **Mathematicians** [Ano81e, RWSW85, Rej81, Rei81]. **Mathematics** [Cur89a, Cur89c, Tuk58, Ula80, Zem79, CL05]. **Mathematik** [ARE+87, Ric85]. **mation** [Bei75]. **Matter** [Ros84a]. **Matyas** [BCKS+83]. **Mauchly** [Ano82d, Mau84, SW80, Ste80b, Ste81]. **maverick** [Wor87, AWL+88]. **May** [GIS90, Hur83c, MN88a, TLR+91, Ano83-31, Ano85f, Van83]. **MC** [Tro82b, dBDvdR71]. **MC-25** [Tro82b, dBDvdR71]. **McCorduck** [KT80a, TDCKW84]. **McKie** [CW84]. **McLean** [AWL+88]. **McMahon** [ARE+87]. **McNeil** [CFK+91]. **MDDPM** [Gor86]. **means** [Mer82]. **Mechanical** [ARE+87, Cha80, MRFS87, Svo80, dO86]. **Mechanics** [Cou82b, Med88, Zus82b]. **Mechanization** [Bei75, SS80]. **Medal** [Ano83-35]. **Media** [Win98, Win86a, Win86b, TSD+87]. **Medical** [Blu87, BD90, CCR+91, Smi91]. **Medicine** [Blu87]. **Meeting** [Ano85f, Ano85i, BH81, Cli85, MM88, WH84, Ano82f, BHB+89, Noh84, Tro87, vdPWB82]. **Meetings** [Ano85f, Ano85i, AW82, BHMU85, Hur85, LP81, MB80, Noh84, RS82, SZ84, TA81, Tro85, Wal80, Wal81, WR81, WG82, Wil82, Wil85c, WD85]. **Mein** [WLC86, Zus70, Zus84]. **mejor** [PW84a]. **Memoir** [BH88, Hal91, Hus91, Slo82]. **Memoirs** [AMW+88, WCB90, Wil85a]. **Memoranda** [Ran82i, MKR82]. **Memorandum** [MRFS87, Ran87]. **Memoriam** [CW91]. **Memories** [Bem86, Dij80, Dou79, Pug84, Slu80, WTE+85, PV86]. **Memory** [Tho80a]. **Men** [CLBdB89, Lun87]. **Merrifield** [Mer82]. **Method** [Zus82a]. **Methods** [ARE+87, GMT85, RvN85, Eck40, EM84, dO86, RUvN47]. **Métiers** [All91]. **Metropolis** [LTC+81, LB81, SR82]. **Meyer** [BCKS+83]. **MGDPS** [Jon89]. **Michael** [Wei89a]. **Michaelson** [WIR91]. **Michigan** [BHB+89, MM97]. **microchip** [Que88, AMW+88]. **Microcomputer** [BGR88, Lay89]. **Microcosm** [EM88]. **Microelectronics** [CCKSS90, For80, For81, SR82, Mol89, PB87, AWL+88]. **microprocessors** [Shu96]. **Microprogramming** [Wil86, BHW+90]. **Microsystems** [CW91, HB90]. **Mikhaylovich** [Zem82]. **milestone** [Kis00]. **Military** [WMH82]. **Mina** [Ano83-35]. **Mind** [AWL+88, Gar85, Gar87, Shu84, Shu96, BSS84]. **Minimum** [GH85]. **Minker** [Wei89a]. **Minneapolis** [Ano81i]. **Minutes** [Ano83-32, Ano85f, Ano85i, Ste85b, RB85]. **MIS** [Sam91a]. **Missing** [MKR82, Ran82i]. **Misunderstanding** [TSD+87, Win86a, Win86b]. **MOBIDIC** [Hum87]. **Model** [Sch90]. **Models** [CDW92, Sim91]. **Modern** [Asp90c, CW91, Mac92b, RWSW85, Ros90, SE86, Zem79, BWC83a, BWC83b, DK85, Mac92a, Mac99]. **modifications** [Spe00]. **Molina** [CCKSS90]. **Mollenhoff** [WIR91]. **Monica** [Bak83]. **monochrome** [Sco94]. **Monster** [AdB86]. **Monte** [BHMU85, Hur85]. **Monument** [Wal80]. **Moore** [HG79, MHW87, RB85, Ste85b, WLC86, CKW85]. **Moreau** [BSS84]. **Morton** [Wei89a]. **Motors** [Ryc83]. **Mounier** [CW91]. **Mounier-Kuhn** [CW91]. **Moves** [Ano81i]. **Moving** [Ano83-34]. **Mr** [BCKS+83, Mer82, SBET85]. **Mr.** [Fra81, Fra84, Fra85, Mer82, VW91, Wil91b]. **Ms** [CFK+91, CH90]. **Much** [Mac92b, Lea05, Mac92a, Mac99]. **Muddled** [Led82b, TDCKW84]. **Muller**

[AFB+89, CW91, Lin87, Lin90]. **multimedia** [Sco94]. **multiprocessor** [Phi89]. **multiprogrammed** [Phi89]. **Munich** [WSC+88, MZ88]. **Murderer** [Hul41, CKSW83]. **Murphy** [THWV88]. **Murray** [O'N92]. **Musée** [All91]. **Museum** [All91, Ano82g, Ano83-34, MZ88, RS80a, WLC86, WSC+88, OLCJ91, Ano81j, Ano81k, Bur81, CK82b, Cer80, MHW87, OLCJ91, WR81, WTE+85]. **Museums** [All91, WSC+88, Wil89, Wil90]. **My** [CW91, CDW92, Eis89, Sim91, TPG+89, Wat90, Zus93, WP00]. **mysteries** [Fut07]. **Mysterious** [Hus85, Ran83].

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Practices [Cus91]. **Prague** [Obl80a]. **Pray** [Wil91b]. **Predictors** [RMV82, TD88]. **Prehistory** [TDCKW84, Zem80, Cer83, Lay89]. **Preliminary** [Bir83, BGvN82]. **Preparation** [Mau82a]. **preprints** [Wex93]. **present** [Asi72, Asi82, CK00, Van89, Van91a, Van91b, CCKSS90]. **presented** [Blu87]. **Presents** [Ano83-34]. **Preserving** [Ste80c]. **Presidential** [TD88]. **Presidents** [WHG+86]. **preview** [Wil00]. **Previous** [CS85, Kes86, TS85]. **Price** [RWSW85]. **Princeton** [MN88a]. **Principle** [Bau90]. **Principles** [Ano83-36, Cou82a, vN81b, vN88]. **Printed** [CW91, Van80, Eis89]. **Printing** [WT91b, WT91c, Mer82]. **Prior** [Bem84]. **Prize** [BWK88]. **Problem** [BCKS+83, Fra81, GH85]. **Problems** [Mau82a, vN81a]. **Proceedings** [ACM00, AFI72, Ano48, Ano79c, Har47b, Har51, Har85a, MM97, dBvV81a, Blu87, Kin87, dBvV81b, AWL+88, GIS90, Smi84]. **Process** [Leh80, Ben91, CWM+91]. **Processing** [Ano81k, Aus82, BBB59, CW84, CCR+91, EZB83, Kis91, LS83, Mil85, Rei91, SN86, WSC+88, Zem90a, Zem90b, Cor90, FMM83, Kis00, OLCJ91, Ano83-35, Gul80, WSC+88]. **Processor** [HEA+83, SS10, GM85]. **Processors** [Slo82]. **Prodigy** [CFK+91, FG90]. **Produced** [Roc83a]. **Production** [Ben83, BRG+87, GG90, Hei91, Rob87, Ros83]. **Products** [HEA+83]. **Prof** [dBvV81b]. **Profession** [ARE+87, McM84]. **Professor** [Mer82, Fut07, Mer82]. **profiles** [AA85a]. **Program** [AW82, Asp90a, BP84, Bur80, CW91, Cur89b, McC83e, MJ84, Ran82m, Ree82, RS82, SHH81, Swe83, TTB+88, TDCKW84, WK89, All91, Bre00, Cer83, OLCJ91, Str65, Tra66, Buc83, PV86, RS80a, Ree85]. **program-controlled** [OLCJ91]. **Programmed** [ST82]. **Programmer** [Dij80]. **Programming** [Ano80c, Ano83l, Ano83v, Ano86o, Ano86p, Bac80, BMC81, CK80a, CK80b, CK81, CK82a, Dor84, ESB80, Fra81, KT80b, O'N92, OH84, SWT+81, Sam91d, SR82, SH79, TMRL89, TKE90, Ver90, Wex93, Wil80a, Spe00, Wex81, Ano80c, Ano83l, BCKS+83, BRS+89, BHW+90]. **Programs** [Ben83, McC83b, Roc83a, Voo83b]. **progress** [OLCJ91]. **Project** [Ano83-32, Gla91, GL81, Tho80b, Sam91a, Buc62, RS80b, Roc83b, Tro80, WMS+89]. **Projects** [Ano82g]. **Prologue** [BH89b, DT86, Hur83d, Hur86c, Ros87]. **Promptuary** [Tom88, Wil88, KTW84]. **Prony** [GG90]. **Proof** [MJ84]. **Property** [CLBdB89, Per87]. **Proposed** [Aik82, Lud82]. **Prospective** [Ano88b, AWL+88, WTE+85, Har47a, Har84]. **prospects** [McC79]. **Prospectus** [Cur89a]. **Public** [Ano83-35, Ano82g]. **Publication** [Ano83-34]. **Publications** [All91, BSEW83, McC84]. **Publisher** [Ano82g]. **Pugh** [WTE+85]. **Punched** [CW91, Eck40, EM84, GMT85, Hei91, Kis91, McP42, Nor90]. **Punched-card** [Hei91]. **Purpose** [BSEW83, BB81, MHS82, Ran81]. **Pylyshyn** [Ham79].

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ACK89, BCKS+83, CCKSS90, CFK+91, TSD+87]. **Tektronix** [CCKSS90, Lee86]. **telegraph** [Win98]. **Telephone** [Alt82, And82, Ran82d]. **Television** [CDW92]. **Teller** [BH89c]. **Ten** [Ano88e, Ano88f, Ano88g, Ano88h, Ano88i, Asp88]. **Teresa** [Noh84]. **Term** [Asp85a, SE86, TTB+88, TB84]. **Terman** [Buc83]. **Terms** [TBGE89]. **Testimony** [Hur81]. **Testing** [Ano83p]. **Texas** [TLR+91]. **text** [CFK+91, CH90]. **Their** [Ano88b, AWL+88, Cou82a, WTE+85, Har47a, Har84, MKW92, Oko00]. **them** [Lav80b, Lav80c]. **Theoretical** [Tor82b, Har81]. **Theory** [CB90, CFK+91, Kle81, Mac92b, Sha45, Sha48a, Sha48b, CKW85, Mac92a, Mac99, Nij88, Tra66, Asp90d]. **things** [Wil00]. **think** [McC79, KT80a]. **Thinker** [GG92]. **Thinking** [BCKS+83, Fut07, FKK08, Fut59, Fut73, Fut76]. **Third** [Kin87]. **Thirty** [Mai88, Mil85, BL82]. **Thomas** [CFK+91, O'N92, FG90, TWPP91]. **Thompson** [SBET85]. **those** [Ver90]. **Thought** [Ham80, BWC83a, BWC83b, RWSW85]. **Thoughts** [AMTC80, TPG+89, Wil85e]. **Thousand** [Per86]. **thread** [BBS86, ASS87]. **Three** [Ber84, Ber87, Bül90, GCL83, WTE+85]. **Thus** [CFK+91, CH90]. **Tidal** [vdE92]. **Time** [FL86, WMS+89, CCKSS90]. **Time-Life** [CCKSS90]. **Timers** [BMC81]. **times** [Asi72, Asi82]. **Today** [AWB+88, Kin87]. **together** [Wil85e]. **Tokyo** [AFI72]. **Tomash** [OLCJ91, Ano81i]. **Tomayko** [CWM+91]. **Tomorrow** [ARE+87, Wil85e]. **too** [Lea05]. **Tools** [CB90, Dru82, Fan88]. **Topics** [TWA+87]. **Toronto** [LP81]. **Torres** [LTC+81, San80, Ran82k]. **tour** [Pet08]. **Tracing** [McC83e]. **Tragedies** [McC01]. **Training** [Hol82b, Sco94]. **Transatlantic** [Wil87]. **transfert** [CW91, MK90b]. **Transforms** [TWA+87]. **Transistor** [Tak86]. **Transistors** [Cha91c, CWM+91]. **Transition** [Bau90]. **Translated** [Zem90b]. **Translation** [AWB+88, CFK+91, CH90, Kin87]. **Transmission** [Har83]. **Tree** [GH85]. **Tribute** [TLR+91, dBvV81b]. **Trice** [CMF+90]. **Trigonometric** [GG90]. **Trilogy** [MW80, MW72]. **Trinity** [UV81]. **triumph** [MR85a]. **Triumphs** [McC01]. **Tropp** [Ano82d]. **Trounces** [TPWW92]. **true** [Fut07]. **TSS** [RGB83]. **Tube** [Mau82b]. **Tubes** [BCKS+83, Sto82]. **Turing** [AWL+88, CK84, CFK+91, O'N91, THWV88, TDCKW84, Asp80, Cop04, DK90, Her88, Her95, Hod83a, Hod83b, Hod85, Hod00, Lea05, MJ84, Pet08, TWCD86, Wil80b]. **Turkestan** [SZ84]. **Tutorial** [Kin87]. **Twelve** [MK90c]. **Twentieth** [BWC83c, LTC+81, LB81, SR82, MHR85, MHR80, WD85]. **Twentieth-century** [BWC83c]. **Twenty** [ARE+87, TPG+89, Wil85e]. **Twenty-five** [ARE+87, Wil85e]. **Two** [Bur80, Per86, Jon89, AWL+88, BWV+88, Koz84a, Koz84b, WTE+85]. **Type** [HK86, Hug86, LS83, Mau82a, Ano83y, Ano83-36].

U.S [CW84, CCR+91, RS80a, WSC+88]. **U.S.** [Ano83a, Ano83b, Cor90, FMM83, Rei91, Til83, TD88]. **U.S.-U.S.S.R** [RS80a]. **U.S.A.** [Bir80]. **U.S.S.R** [RS80a]. **Ultimate** [CCKSS90, RH88, RH90]. **Undergraduate** [Ano82e]. **Understanding** [CCKSS90, Tim89]. **Unfortunate** [CKSW83, Hul41]. **Unidos** [PW84a]. **Unisys** [All91]. **Unit** [Wil81a]. **United** [RWSW85, Ano83d, Rei81]. **UNIVAC** [VBCC83, Sch88, Ste80d, Ste81, TD88, TPWW92, CLBdB89, Lun87]. **Universal** [AFB+89, Her88, Her95]. **Universities** [Gal86d, BMK90]. **University** [Ano48, Ano80c, BHB+89, CFK+91, CH90, GIS90,

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[BBB59] Frederick P. Brooks, Jr., Gerrit A. Blaauw, and Werner Buchholz. Processing data in bits and pieces. *IRE Transactions on Electronic Computers*, EC-8(2):118–124, June 1959. CODEN IRELAO. ISSN 0367-9950. URL `http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5219512`. This paper contains on page 121 the first published reference to the term "byte". An article of the same title appears in "Information Processing, Proceedings of the International Conference on Information Processing, UNESCO, Paris, 15–20 June 1959", pp. 375–381, 1959. From [Buc62, page 40]: "Byte denotes a group of bits used to encode a character, or the number of bits transmitted in parallel to and from input-output units. A term other than character is used here because a given character may be represented in different applications by more than one code, and different codes may use different numbers of bits (i.e., different byte sizes). In

input-output transmission the grouping of bits may be completely arbitrary and have no relation to actual characters. (The term is coined from bite, but respelled to avoid accidental mutation to bit.)".

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[BBC+87] Robert S. Barton, Henri Bercé, George A. Collins, Bobby A. Creech, David M. Dahm, Benjamin A. Dent, V. James Ford, Bernard A. Galler, John E. S. Hale, Erwin A. Hauck, Joseph T. Hootman, Paul D. King, Norman L. Kreuder, William R. Lonergan, Duncan MacDonald, F. Bradley MacKenzie, Clark Oliphint, Ralph Pearson, Robert F. Rosin, Lloyd D. Turner, and Richard Waychoff. Discussion: The Burroughs B 5000 in retrospect. *Annals of the History of Computing*, 9(1):37–92, January/March 1987. CODEN AHCOE5. ISSN 0164-1239. URL `http://dlib.computer.org/an/books/an1987/pdf/a1037.pdf; http://www.computer.org/annals/an1987/a1037abs.htm`.

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[BC90] Werner Buchholz and Gregory D. Crowe. Comments, queries, and debate: Soviet BESM Computers. *Annals of the History of Computing*, 12(4):286, October/December 1990. CODEN AHCOE5. ISSN 0164-1239. URL `http://dlib.computer.org/an/books/an1990/pdf/a4286.pdf; http://www.computer.org/annals/an1990/a4286abs.htm`. See [Luk90].

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[BCKS+83] Allan G. Bromley, Martin Campbell-Kelly, K. W. Smillie, Eric A. Weiss, Saul Rosen, and Cipher A. Deavours. Reviews: O. I. Franksen: Mr. Babbage, the Difference Engine, and the Problem of Notation: An Account of the Origin of Recursiveness and Conditionals in Computer Programming; H. Lukoff: from Dits to Bits; I. Asimov: Asimov's Biographical Encyclopedia of Science and Technology; J. Futrelle: Thinking Machine; R. M. Hord: The Illiac IV; C. H. Meyer and S. M. Matyas: Cryptography; T. J. Peters and R. H. Waterman: In Search of Excellence; J. W. Stokes: 70 Years of Radio Tubes and Valves; G. Welchman: The Hut Six Story; capsule reviews. *Annals of the History of Computing*, 5(4):411–427, October/December 1983. CODEN AHCOE5. ISSN 0164-1239. URL `http://dlib.computer.org/`

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[BEG+87] Werner Buchholz, Ralph Erskine, Herb Grosch, William Aspray, J. A. N. Lee, and Paul M. McConnell. Comments, queries, and debate: Marian Rejewski and the chronology of Enigma; early IBM computer conferences; the computing scene 1945–1955: Another perspective; response; the ENIAC collections; response to query on hexadecimal notation. *Annals of the History of Computing*, 9(3/4):369–373, July/September 1987. CODEN AHCOE5. ISSN 0164-1239. URL http://dlib.computer.org/an/books/an1987/pdf/a3369.pdf; http://www.computer.org/annals/an1987/a3369abs.htm. See original query on hexadecimal notation [BRG+87].

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