

Abbreviations for Reference Works Used in the Catalog

- Aco *HNMI* – Acosta, Jose de; *Historia natural y moral de las Indias*.
- Ada *CBCE* – Adams, H. M.; *Catalogue of Books Printed on the Continent of Europe, 1501-1600 in Cambridge Libraries*, Cambridge, Cambridge University Press, 1967. 2 vols.
- Adm *BPM* – Adamson, Donald; *Blaise Pascal Mathematica, Physicist and Thinker about God*, New York, St. Martins Press, 1955.
- AFIPS *CI* – American Federation of Information Societies; *Consolidated Index Conference proceedings Volumes 1 through 26*, Santa Monica, CA, AFIPS Press, 1964.
- Alb *HA68* – Alberts, Gerard, editor; *Conference on the history of ALGOL 68*, Amsterdam, Centrum voor Wiskunde en Informatica, 1993.
- Aldis – Aldis, H. G.; *A List of Books Printed in Scotland before 1700*, revised edition, Edinburgh, 1970.
- AM *PPP* – Amsler, Robert and Erismann, Theodor H.; *Jakob Amsler-Laffon, 1823-1912, Alfred Amsler, 1857-1940: Pioniere der Prüfung und Präzision*, Verein für Wirtschaftshistorische Studien Meilin, Meilin, 1993.
- Ann *HC* – *Annals of the History of Computing*; Los Alamitos, IEEE Computer Society, 1979–2008.
- Arch *MTM* – Archibald, Raymond Clare; *Mathematical Table Makers*, New York, Scripta Mathematica, 1948.
- Asc *CQ* – Ascher, Marcia and Robert Ascher; *Code of the Quipu*, Ann Arbor, The University of Michigan Press, 1981.
- Babb *CBLP* – *List of Mr. Babbage's printed papers (Appended to Passages from the Life of a Philosopher)*, London, Longman Green, Longman Roberts, and Green, London, 1864.
- Babson – *A descriptive catalogue of the Grace K. Babson collection of the works of Sir Isaac Newton*, 2 Volumes, New York, 1950-1955.
- Bar *CCCB* – Barnard, Francis Pierrepont; *The Casting Counter and the Counting Board*, Oxford, Oxford University Press, 1917.
- Bax *CMI* – Baxanadall, David; *Calculating machines and instruments. Catalogue of the collections in the Science Museum South Kensington with descriptive and historical notes and illustrations. Mathematics I. Calculating machines and instruments*, London, Her Majesty's Stationary Office, 1926.
- Bel *BSTJ* – American Telephone and Telegraph Company, *Bell System Technical Journal*, New York, American Telephone and Telegraph Company.
- Bel *TM* – American Telephone and Telegraph Company, *Technical Monograph 1726*, New York, American Telephone and Telegraph Company.
- Ben *DA* – Bennett, James Arthur; *A decade of accessions 1980-1990*, Cambridge, Whipple Museum, 1992.
- Ben *DC* – Bennett, James Arthur; *The divided circle: A history of instruments for astronomy, navigation and surveying*, Oxford, Phaidon, 1987.
- Ben *GW* – Bennett, James Arthur and Johnston, Stephen A.; *The geometry of war 1500-1750*, Oxford, The Museum of the History of Science, 1996.
- B de H *BNHS* – Bierens de Haan, David; *Bibliographie Néerlandaise Historique – Scientifique*, Nieuwkoop, B. De Graaf, 1960.
- BDM *LR* – *Libri rari der Bibliothek des Deutschen Museums zu München*.
- BL – *British Library Catalogue*.
- BMC – *British Museum Catalogue*.
- Bru *MLAL* – Brunet, Jacques-Charles; *Manuel du Libraire et de l'Amateur de Livres*, Paris, 8 vols., 1860-1880.
- Brun *LFR* – Brun, Robert; *Le Livre Français Illustré de la Renaissance. Etude suivie du Catalogue des Principaux Livres a Figures du XVIe Siècle*, A. et J. Picard, Paris, 1969.
- BSIS – *Bulletin of the Scientific Instrument Society*, Witney, UK.
- BU – *Bibliothèque nationale de France catalogue*.
- Bud *IOS* – Bud, Robert and Warner, Deborah Jean; *Instruments of Science: An historical encyclopedia*, New York, Garland Publishing, 1998.
- Caj *HM* – Cajori, Florian, *A History of Mathematic*, New York, Macmillan & Company, 1913
- Caj *HLSR* – Cajori, Florian; *A History of the Logarithmic Slide Rule and Allied Instruments*, New York, The Engineering News Publishing Company, 1909.
- Car *PMM* – Carter, John Waynflete and Percy H. Muir; *Printing and Mind of Man*, Pressler, Munich, 1983.
- Cas – Caspar, M.; *Bibliographia Kepleriana*, München, 1936.
- Cha *AI* – Chapman, Allan; *Astronomical instruments and their users*; Ashgate, London; 1996.
- Cin *BG* – Cinti, Dino; *Biblioteca Galileiana*, Florence, Sansoni Antiquariato, 1957.
- Clif *DBSI* – Clifton, Gloria; *Dictionary of British Scientific Instrument Makers*, London, Zwemmer and The National Maritime Museum, 1995.
- Co *MN* – Cohen, I. Bernard and Gregory W. Welch; *Makin' Numbers: Howard Aiken and the Computer*, The MIT Press, Cambridge, MA, 1999.
- Cos *CPFM* – Cosens, G. R. G.; *Catalogue of an Exhibition of Printing at the Fitzwilliam Museum*, Cambridge, Cambridge University Press, 1940.
- Cou *AoL* – Couturat, Louis; *The algebra of logic*, Open Court, Chicago, 1914.
- Cre *CL* – Josephson, Aksel G. S; *The John Crerar Library. A list of books on the history of science.*, Chicago, 1911.
- Cro *CL* – *The Crone Library, a descriptive catalogue with annotations*, Amsterdam, Nieuwkoop, 1989.
- Croarken – Croarken, Mary; *Early scientific computing in Britain*; Clarendon Press; Oxford; 1990.
- Dau *HTI* – Daumas, Maurice; *History of technology and invention*, 2 vols., Crown, New York, 1964.
- DeBacher – de Bacher, Augustin et Alois; *Bibliothèque des Ecrivains de la Compagne de Jiiut*, Liege, 1835.
- DeM *AB* – DeMorgan, Augustus; *Arithmetical Books from the Invention of printing to the present time*, London, Taylor and Walton, 1847.
- Drake *GMC* – *Operations of the Geometric and Military Compass*, Stillman Drake, translator, Washington, DC. Smithsonian Institution Press, 1978.
- DSB I – XVI – Gillespie, Charles Coulton, editor in chief; *Dictionary of Scientific Biography*, New York, Charles Scribners Sons, 1970, XVI vols.
- Dub *MWCB* – Dobbey, John Michael; *The Mathematical Work of Charles Babbage*, Cambridge, Cambridge University Press, 1978.

- Enc *Brit* – Preece, Warren E., editor; *Encyclopædia Britannica*, Chicago, Encyclopædia Britannica, 1970, 24 volumes.
- Evans *CDPUS* – Evans, Charles; *American Bibliography, a Chronological Dictionary of all Books, Pamphlets and Periodical Publications printed in the United States from 1639 to 1820*, Chicago, Columbia Press, 13 volumes, 1903-1955.
- Ferg – Ferguson, J.; *Bibliotheca chemia; a catalog of... books in the collection of the late James Young, 1910*, 2 volumes.
- Fif *AC* – Fifer, Stanley; *Analogue Computation: Theory, Techniques and Applications*, New York, McGraw-Hill Book Company, 4 vols., 1961.
- Flet *IMT* – Fletcher, Alan; Jeffery Charles Percy Miller and Louis Rosenhead; *An Index of Mathematical Tables*, McGraw Hill Book Company, 1946.
- Flet *MT* – Fletcher, Alan; Jeffery Charles Percy Miller and Louis Rosenhead and Leslie John Comrie; *An Index of Mathematical Tables*, Oxford, Blackwell Scientific Publications, 1946, 2 Volumes.
- Gal *BLC* – Galland, Joseph Stanislaus; *Bibliography of the Literature of Cryptology*, Laguna Hills, CA, Aegean Park Press, 1966.
- Geb *COSS* – Gebhardt, Rainen, editor; *Rechenmeister und cossisten der frühen neuzeit*, Freiberg, Technische Universität Bergakademie, 1996.
- Gin *HLB* – Gingerich, Owen; *Harvard Library Bulletin*, v. 19 #2 p. 124.
- Glais *RCMT* – Glaisher, James Whitbread Lee; et al.; *Report of the Committee on Mathematical Tables*, London, Taylor & Francis, 1873.
- Glais *EH+-* – Glaisher, James Whitbread Lee; et al.; *On the early history of the signs + and - and on the early German arithmetician*. In: *Messenger of Mathematics*, No. 601, Vol. II., London, 1921-22.
- Goff *IAL* – Goff, Frederick R.; *Incunabula in American Libraries*, New York, 1964.
- Gold – Goldsmith's Kress Library of Economic Literature Catalog.
- Gra *TLR* – Graesse, Jean George Theodore; *Tresor de livres rares et precieux. Ou Nouveau Dictionnaire Bibliographique*.
- Gun – *AOW* - Gunther, Robert Theodore; *Astrolabes of the world*, 1976, Holland, London.
- Jnl *JOS* – *Journal of the Oughtred Society*, Oughtred Society, Palo Alto, CA.
- Hambly *DI* – Hambly, Maya; *Drawing Instruments 1580-1980*, London, Sotheby's Publications, 1988.
- Hant *DM* – Hantsche, Irmgard, editor; *Der "mathematicus". Zur entwicklung und bedeutung einer neuen berufsgruppe in der zeit Gerhard Mercators*, N. Brockmeyer, Bochum, 1996.
- HBabb – Babbage, Henry Prevost; *On mechanical notation, as exemplified in the Swedish calculating machine of Messrs. Scheütz. Extract from the report of the British Association for the Advancement of Science*, 1855.
- Hell *ISTC* – Hellinga, Lotte; *Incunable Short Title Catalog*, British Library, London, 1980.
- Hend *BTM* – Henderson, James; *Bibliotheca Tabularum Mathematicarum. Being a descriptive catalogue of Mathematical tables. Part I, Logarithmic tables (A. Logarithms of numbers)*, Cambridge, Cambridge University Press, 1926.
- Hist *HAL* – *Historical Accounting Literature*, London, Mansell, 1975.
- Hob *SQ* – Hobson, Ernest William; *Squaring the Circle*, Cambridge, Cambridge University Press, 1913.
- Horb *I00* – Horblit, Harrison D.; *One Hundred Books Famous in Science*, New York, Grolier, 1964.
- Horb *CC* – Horblit, Harrison D.; *Collector's Choice: A selection of books and manuscripts given by Harrison D. Horblit to the Harvard College Library, The Houghton Library*, Cambridge, MA, 1983.
- Hud *R&C* – Hudson, Hilda Phoebe; *Ruler & Compasses*, London, Longmans Green & Company, 1916.
- Hymn *AC* – *The Honeyman Collection of Scientific Books and Manuscripts*, Sotheby Parke Bernet & Co., London, 1978, Parts I, II, III, IV, V, VI, VII.
- H&J *AM* – Hoock, Jochen and Pierre Jeannin; *Ars Mercatoria, eine analytische Bibliography*, 1470-1600, Paderborn, Ferdinand Schöningh, 1991, Band I, II, III.
- H&L – Houzeau, Jean-Charles and Albert-Benoit Lancaster; *Bibliographie Générale de l'Astronomie*, London, Holland Press, 1964, Volumes I, II, III.
- Kahn *CB* – Kahn, David; *The Codebreakers: The story of Secret Writing*, New York, The Macmillan Company, 1967.
- Karp *HA* – Karpinski, Louis Charles; *The history of arithmetic*, New York, Rand McNally & Co., 1925.
- Karp *MWPA* – Karpinski, Louis Charles; *Bibliography of Mathematical Works Printed in America through 1850*, University of Michigan Press, 1940.
- Kem *DSL* – Kempe, Alfred Bray; *How to Draw a Straight Line; A lecture on Linkage*, New York, Macmillan & Company, 1877.
- Ken – *Catalogue of the Celebrated Collection. The property of C.E. Kenney Esq*, London, Sotheby and Co., Parts I to VIII, 1965-1968.
- Ken *QQ* – Kenny, C. E.; *The quadrant and the quill*, London, 1947.
- Kie *SI* – Kiely, Edmond Richard; *Surveying Instruments. Their history and classroom use*, New York, Teachers College, Columbia University, 1947.
- Kno *NTMV* – Knott, Cargill Gilston; *Napier tercentenary memorial volume*, London, Longman Green, 1915.
- Kress *LBE* – *The Kress Library of Business and Economics covering material published through 1776*, Fairfield, CT, August M. Kelly Publishers, 1977.
- Kst *GMS* – Kästner, Abraham Gotthelf; *Geschichte der mathematik seit der wiederherstellung der wissenschaften bis das ende des achtzehnten jahrhunderts...*, 4 vols., 1796-1800, Johann Georg Rosenbusch, Göttingen.
- Loc *AQ* – Locke, L. Leland; *The Ancient Quipu or Peruvian Knot Record*, New York, The American Museum of Natural History, 1923.
- Mac *TCL* – Macdonald, William Rae, translator; *The construction of the wonderful Canon of Logarithms by John Napier translated from the Latin into English with notes and a Catalogue of the various editions of Napier's works*, Edinburgh, William Blackwood and Sons, 1889.
- Madan – Madan, F.; *Oxford Books*, 3 Volumes, Oxford, 1895-1931.
- May *BRM* – May, Kenneth Ownsworth; *Bibliography and Research Manual of the History of Mathematics*, Toronto, University of Toronto Press, 1973.
- MCK *CBCW* – Campbell-Kelly, Martin, editor; *The Works of Charles Babbage, 11 Vols.*, London, William Pickering, 1989.
- Mort *HFB* – Mortimer, Ruth; *Harvard College Library...Catalogue Part 1: French Sixteenth-Century Books*, 1964.
- MTAC *CI* – American Mathematical Society; *Cumulative Index to Mathematics of Computation Volumes 1-23, 1943-1969* (v.1-13 published under the title: *Mathematical Tables and other aids to Computation*).
- Mur *CHBA* – Murray, David; *Chapters in the History of Bookkeeping Accountancy and Commercial Arithmetic*, New York, Arno Press, 1978.
- Nor *AC* – Norman, Haskel F.; *The Haskel F. Norman Library of Science and Medicine Auction Catalog*, New York, Christie's, 1998. 3 vols.
- NUC – *National Union Catalog of the Library of Congress*.

- Ocag *Nom* – Ocagne, Philbert Maurice d'; *Nomographie. Les calculs usuels effectués a moyen des abaques. Essai d'une théorie générale. Règles pratiques. Exemples d'application...*, Paris, Gauthier-Villars, 1891.
- OCLC – Originally Ohio College Library Center, now OCLC Online Computer Library Center.
- Otnes *JOS* – *Journal of the Oughtred Society*.
- Pal – Palau y Dulcet, A.; *Manual del Libero Hispano-Americana*, Barcelona, 1948-1977.
- Pogg – Poggendorff, Johann Christian; *Biographisch-Literarisches handwörterbuch zur gwschichte der exacten wissenschaften*, Amsterdam, B. M. Israel, 1970, 2 volumes.
- Proctor – Proctor, Robert; *An index to the early printed books in the British Museum*, part I (to 1500) and part II (1501-1520), London, 1903.
- Pul *HA* – Pullen, J. M.; *The History of the Abacus*, New York, Frederick A. Praeger Publishers, 1968.
- Ran *ABOC* – Randell, Brian; *An Annotated Bibliography on the Origins of Computers*. In *IEEE Annals of the History of Computing*, vol. 1 no. 2, October, 1979, pp. 101-205. Arlington, VA, AFIPS Press, 1979.
- Ran *ODC* – Randell, Brian; *The origins of digital computers, selected papers*. Springer-Verlag, 1973.
- Rav *BOL* – Ravier, E.; *Bibliographie des Oeuvres de Leibniz*, Paris, 1937.
- Ren *AIE* – Renouard, Philippe; *Annales de L'Imprimerie des Estienne*, Paris, Huard et Guillemin, second edition, 1843.
- Rcdi *BMI* – Riccardi, Pietro; *Biblioteca Mathematica Italiana*, Gorlich Editore, Milan, 1952, 2 Volumes.
- Rink *TA* – Rink, Evald; *Technical Americana: A Checklist of Technical Publications Printed before 1831*, Milwood, NY, Kraus International Publications ca. 1981.
- Sab *DBA* – Sabin, J.; *A Dictionary of Books Relating to America*, 29 Vol., New York, 1868-1963.
- Sart *HIS* – Sarton, George; *Introduction to the History of Science*, Baltimore, Carnegie Institution and Williams and Wilkins Company, 1947, Volumes I, II, III, IV, V.
- Sig *FLA* – Sigler, Laurence E; *Fibonacci's Liber Abaci: A translation into modern English of Leonardo Pisano's book of calculation*, New York, Springer-Verlag, 2002.
- Sin – Singer, Charles Joseph; *A History of Technology*, London, Oxford University Press, 1954-1958, *Volumes I, II, III, IV, V*.
- Sin *TCF* – Singh, A. N.; *The Theory and Construction of Non-Differentiable Functions*, Lucknow, Lucknow University Press, 1935.
- Smi *LCM* – Smith, David Eugene; *Le comput manuel de Magister Anianus*, Paris, Editions E. Droz, 1928.
- Smi *Hist* – Smith, David Eugene; *History of Mathematics ...*, New York, Dover Publications, 1958, 2 volumes.
- Smi *Rara* – Smith, David Eugene; *Rara Arithmetica...*, New York, Chelsea Publications, 1970.
- Som *BCJ* – Sommervogel, Carlos; *Bibliothèque de la Compagnie de Jésus*.
- Soth/Zeit *BCM* – Sothorn, Henry Cecil and Heinrich Zeitlinger; *Bibliotheca chemico-mathematica: catalogue of works in many tongues on exact and applied science, with a subject-index. Compiled and annotated by H. Z. and H. C. S. With 127 plates, containing 247 portraits and facsimile*, v.1, London, Henry Sotheran & Co., 1921-1952, 3 volumes.
- Sti *ALS* – Stillwell, Margaret Bingham; *The Awakening Interest in Science during the First Century of Printing*, New York, Bibliographical Society of America, 1970.
- Tay *MP I* – Taylor, Eva Germaine Rimington; *The Mathematical Practitioners of Tudor & Stuart England 1485-1714*, Cambridge, Cambridge University Press, 1954.
- Tay *MP II* – Taylor, Eva Germaine Rimington; *The Mathematical Practitioners of Hanoverian England 1714-1840*, Cambridge, Cambridge University Press, 1966.
- Tho *HMES* – Thorndike, Lynn; *A History of Magic and Experimental Science*, v. I, New York, Columbia University Press, 1966, 8 volumes.
- UMI – *University Microfilms Incorporated*, Ann Arbor, UMI, 1942.
- Urt *SIK* – Urton, Gary; *Signs of the Inka Khipu: Binary coding in the Andean Knotted string records*, Austin, TX, University of Texas Press, 2003.
- Van E *CR* – Van Egmond, Warren; *The commercial revolution and the beginnings of western mathematics in renaissance Florence, 1300-1500*, Dissertatio Abstracts International, #77-10, 932.
- Van E *PMIR* – Van Egmond, Warren; *Practical Mathematics in the Italian Renaissance a catalog of Italian abacus manuscripts and printed books to 1600*, Florence, Istituto e Museo di Storia della Scienza, 1980.
- Van O *BBGF* – Van Ortro, Fernand; *Bio-bibliography de Gemma Frisius*, Amsterdam, Meridian Publishing, 1966.
- Van O *BOPA* – Van Ortro, Fernand; *Bibliographie de l'œuvre de Pierre Apian*, Amsterdam, Meridian Publishing, 1963.
- Van S *CBPC* – Van Sinderen, Alfred W.; *The Printed Papers of Charles Babbage*. In: *IEEE Annals of the History of Computing*, vol. 2 no. 2, April, 1960, pp. 169-185, Arlington, VA, AFIPS Press, 1960.
- VD16 – On Line Internet Catalog; *Verzeichnis der im deutschen Sprachraum erschienenen Drucke des 16 Jahrhunderts*, 1969-1999.
- VD17 – On Line Internet Catalog; *Verzeichnis der im deutschen Sprachraum erschienenen Drucke des 17. Jahrhunderts*, (Work in Progress) 1996.
- Wal *BBM II* – Wallis, Ruth V. and Peter John Wallis; *Biobibliography of British Mathematics and its Applications, Part II 1701-1760*, Newcastle upon Tyne, Project for Historical Biobibliography, 1986.
- Wal *BBM III* – Wallis, Ruth V. and Peter John Wallis; *Index of British Mathematicians, Part III 1701-1800*, Newcastle upon Tyne, Project for Historical Biobibliography, 1993.
- Wal *CBS* – Wallis, P. J.; *Cambridge Bibliographical Society*, 1968.
- Waller – Waller, Emil; *Repertorium typographicum*, Nördlingen, 1864. (Vol II of Panzer, Georg Wolfgang Franz, *Annalen der älteren deutschn litteratur*, Hildesheim, G. Olms, 1961.)
- Weil – Weil, Ernest; *Catalogue of books, manuscripts, photographs and scientific instruments fully described and offered for sale by Ernest Weil 1943-1965*; Maurizio Martino Publisher; Storrs-Mansfield, CT, 1995.
- Whlr *CWG* – Weaver, W.D.; *Catalogue of the Wheeler Gift ... in the Library of the American Institute of Electrical Engineers*, New York, 1909.
- Will *BIST* – Williams, Robert V.; *Bibliography Of The History Of Information Science And Technology, 1900-2004*, 5th Edition, University of South Carolina Press.
- Will *HCT* – Williams, Michael R.; *A History of Computing Technology*, Englewood Cliffs, NJ, Prentice-Hall Inc, 1985.
- Win *ESTC* – Wing, Donald; *Short-Title Catalogue of Books printed in England, Scotland, Ireland, Wales and British America, and of English Books printed in other LowCountries 1641-1700*, New York, Columbia University Press, 1951.
- Zin *GBAL* – Zinner, Ernst; *Geschichte und Bibliographie derAstronomischen Literatur in Deutschland zur zeit der Renaissance*, Stuttgart, Anton Hiersmann, 1964.