

# CATALOGUE OF THE LIBRARY

JANUARY 1, 1913

## I. JOURNALS

[The journals are listed alphabetically according to place of publication.]

### ACIREALE.

*Accademia di Scienze, Lettere, e Arti, Rendiconti e Memorie*, Ser. 3, Vols. 1-6 (1901-1909).

### AGRAM.

*Académie Sud-Slave des Sciences et des Beaux-Arts, Rad, Classe math. et phys.*, Vols. 50-51 (1911-1912); *Ljetopis*, 1910, 1912; Catalogue of Publications, 1867-1911.

### AMSTERDAM.

*Nieuw Archief voor Wiskunde*, Ser. 1, Vols. 1-20; Ser. 2, Vols. 1-9 (1875-1911).

*Revue semestrielle des Publications mathématiques*, Vols. 1-20 (1893-1912). Tables des Matières, 1892-1907.

*Wiskundige Oplossen met de Oplossingen*, Vols. 1-10 (1882-1910). Register, 1875-1910.

### BALTIMORE.

*American Journal of Mathematics*, Vols. 1-34 (1878-1912); Index, Vols. 11-20.

### BERLIN.

*Akademie der Wissenschaften, math.-phys. Klasse, Abhandlungen* (selected mathematical memoirs), 1892-1894, 1897, 1901, 1903-1904, 1906-1911; *Monatsberichte*, 1857-1881, *Sitzungsberichte*, 1882-1911, Indexes, 1836-1858, 1859-1873, 1874-1881.

*Jahrbuch über die Fortschritte der Mathematik*, Vols. 15-40 (1886-1912).

*Journal für die reine und angewandte Mathematik*, Vols. 68-141 (1884-1912).

*Sitzungsberichte der Berliner mathematischen Gesellschaft*, Vols. 1-4 (1901-1905).

*Unterrichtsblätter für Mathematik und Naturwissenschaften*, Vols. 9-17 (1903-1911).

*Veröffentlichungen d. K. Preuss. Geodätischen Instituts*, Nos. 1-2, 11, 19.

### BOLOGNA.

*Accademia delle Scienze, Memorie*, Ser. 5, Vols. 8-10; Ser. 6, Vols. 1-8 (1899-1911); *Rendiconti, New Series*, Vols. 4-15 (1899-1911).

### BORDEAUX.

*Société des Sciences de Bordeaux, Mémoires*, Ser. 4, Vols. 1-5; Ser. 5, Vols. 1-5; Ser. 6, Vols. 1-4 (1893-1908); *Procès-verbaux*, 1894-1911; General Index, 1850-1900; Cinquantenaire, 1906.

- BOSTON.**  
*American Academy of Arts and Sciences, Proceedings*, Vols. 26-47 (1890-1912); *Memoirs*, Vols. 12-13 (1902-1908).  
*Technology Quarterly*, Vols. 4-21 (last) (1891-1908).
- BRAY-SUR-SEINE.**  
*Journal des Géomètres-Experts*, Vols. 1-3, 9-18 (1893-1911).
- BRESLAU.**  
*Jahresbericht der Schlesischen Gesellschaft für vaterländische Cultur*, Vols. 80-82 (1903-1905).
- BRISBANE, QUEENSLAND.**  
*Proceedings of the Royal Society*, Vols. 15-19, 21-22 (1900-1910).
- BRUSSELS.**  
*Académie Royale, Annuaire*, 1835-1836, 1839, 1841-1845, 1848-1849, 1852-1865, 1902-1912; *Bulletin de la Classe des Sciences*, 1902-1911; *Mémoires de la Classe des Sciences*, 4to, Ser. 2, Vols. 1-3 (1904-1912); 8vo, Vols. 2-3 (1910-1912); *Mémoires couronnés et autres Mémoires*, Vols. 60-66 (1900-1904); *Mémoires couronnés et Mémoires des Savants étrangers*, Vols. 58-62 (1899-1904).  
*Annales de la Société scientifique*, Vols. 26-36 (1902-1912);  
 Index, 1875-1901.  
*Annuaire astronomique de l'Observatoire Belgique*, 1906-1907.  
*Nouvelle Correspondance mathématique*, Vols. 1-6 (1874-1880).
- BUCHAREST.**  
*Gazeta Matematica*, Vols. 1-17 (1895-1912).
- BUDAPEST.**  
 See LEIPZIG.
- BUENOS AIRES.**  
*Anales de la Sociedad Científica Argentina*, Vols. 55-72 (1903-1912).
- CAMBRIDGE, ENG.**  
*Cambridge Philosophical Society, Proceedings*, Vols. 10-16 (1899-1912); *Transactions*, Vols. 17-21 (1899-1912).  
*Cambridge and Dublin Mathematical Journal*, Vols. 1-9 (1846-1854).
- CAMBRIDGE, MASS.**  
*The Mathematical Monthly*, Vols. 1-3 (1859-1861) (complete).
- CHERBOURG.**  
*Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg*, Vols. 31-32, 34-38 (1897-1912).
- CHICAGO.**  
*Astrophysical Journal*, Vols. 1-35 (1895-1912).  
*The Monist*, Vols. 1-7, 9-22 (1890-1912).  
*The Open Court*, Vols. 11-26 (1897-1912); Index, Vols. 1-20.  
*School Mathematics*, Vol. 1 (1904).  
*School Science and Mathematics*, Vols. 3-12 (1903-1912).
- CHRISTIANIA.**  
*Arkiv for Mathematik og Naturvidenskab*, Vols. 21-31 (1899-1910).  
*Videnskabs-Selskabet i Christiania, Forhandlingar*, 1898-1899, 1901-1911; *Skrifter*, 1898-1911; *Oversigt*, 1898-1900.
- CITTÀ DI CASTELLO.**  
*Le Matematiche pure ed applicate*, Vols. 1-2 (last) (1901-1903).

## COIMBRA.

*Jornal de Sciencias mathematicas e astronomicas*, Vols. 9–15 (last) (1889–1905).

*Annaes Scientificos da Academia Polytechnica*, Vols. 1–6 (1906–1911).

## COPENHAGEN.

*Kgl. Danske Videnskabernes Selskab, Forhandlinger, Oversigt*, 1900–1911; *Skrifter* (See BOOKS OTHER THAN JOURNALS, under COPENHAGEN).

*Nyt Tidsskrift for Matematik*, Ser. A, Vols. 11–22 (1900–1911); Ser. B, Vols. 11–22 (1900–1911); General Register, 1859–1908.

## CRACOW.

*Bulletin International de l'Académie des Sciences de Cracovie*, 1900–1909; Ser. A (*Sciences math. et naturelles*), 1910–1911.

*Katalog Literatury Naukowej Polskiej*, Vols. 2–10 (1902–1910).

## DENVER.

*Colorado Mathematical Society, Second Biennial Circular*, 1909.

## DES MOINES.

*The Analyst*, Vols. 1–10 (1874–1883) (complete).

## DUBLIN.

*Royal Dublin Society, Scientific Proceedings*, New Ser., Vols. 1–12 (1878–1911); *Scientific Transactions*, Ser. 2, Vols. 1–9 (1877–1909); Index to *Proceedings and Transactions*, 1877–1898.

*Royal Irish Academy, Proceedings*, Ser. A, Vols. 24–29 (1902–1912). Index of Serial Publications, 1786–1906.

## EDINBURGH.

*Annals of the Royal Observatory*, Vol. 1 (1902).

*Proceedings of the Mathematical Society of Edinburgh*, Vols. 1, 11–30 (1883–1912); Index, Vols. 1–20.

11–29 (1883–1911); Index, Vols. 1–20.

*Royal Society of Edinburgh, Proceedings*, Vols. 3–4, 10–12, 15–31 (1850–1911); *Transactions*, Vols. 37–47 (1891–1911).

## ERLANGEN.

*Sitzungsberichte der physikalisch-medicinischen Societät zu Erlangen*, Vols. 25–43 (1893–1911).

## FLORENCE.

*Rivista di Fisica, Matematica e Scienze Naturali*, Vols. 1–25 (1900–1912).

## FORT MONROE.

*Journal of the United States Artillery*, Vols. 1–38 (1892–1912).

## GHENT.

*Mathesis*, Ser. 1, Vols. 4–10; Ser. 2, Vols. 1–10; Ser. 3, Vols. 1–10; Ser. 4, Vol. 1 (1884–1911).

## GLASGOW.

*Proceedings of the Glasgow Philosophical Society*, Vol. 30 (1898–1899).

## GÖTTINGEN.

*Gesellschaft der Wissenschaften, Nachrichten math.-phys. Klasse*, 1892–1911; *Geschäftliche Mitteilungen*, 1894–1911.

*Mathematischer Verein, Berichte*, 1901–1908.

**GRENOBLE.**

*Annales de la Faculté des Sciences de l'Université de Grenoble*,  
Vols. 13–23 (1901–1911).

**HALIFAX.**

*Proceedings and Transactions of the Nova Scotian Institute of Science*, Ser. 2, Vols. 1–2, 4 (1890–1904).

**HALLE.**

*K. Leopoldinsch-Carolinische Deutsche Akademie der Naturforscher, Abhandlungen*, Vols. 90–93 (1909–1910).

**HAMBURG.** See LEIPZIG.**ITHACA.**

*Bulletin of the American Physical Society*, Vols. 1–2, Vol. 3, No. 1 (last) (1899–1902).  
*Journal of Physical Chemistry*, Vols. 1–16 (1896–1912).

**KASAN.**

*Bulletin de la Société physico-mathématique de Kasan*, Ser. 2, Vols. 1–16 (1891–1910).

**KHARKOF.**

*Communications of the Mathematical Society of Kharkof*, Ser. 1, 1879–1887; Ser. 2, Vols. 1–12 (1888–1911).

**KIEFF.**

*University Isvistija*, Vols. 43–51 (1903–1911).

**LANCASTER.**

*International Association for Promoting the Study of Quaternions and Allied Systems of Mathematics, Bulletin*, 1901, 1903, 1908, 1910, 1912.

**LAWRENCE.**

*Kansas University Quarterly*, Ser. A, Vols. 9–10 (1900–1901).  
*Kansas University Science Bulletin*, Vols. 1–5 (1905–1911).

**LEGHORN.**

*Periodico di Matematica*, Ser. 1, Vols. 6–11; Ser. 2, Vols. 12–18; Ser. 3, Vols. 19–27 (1888–1912).  
*Supplemento al Periodico di Matematica*, Vols. 2–15 (1898–1912).

**LEIPZIG.**

*Archiv der Mathematik und Physik*, Ser. 3, Vols. 1–19 (1901–1912).

*Bibliotheca Mathematica*, Ser. 2, Vols. 1–13; Ser. 3, Vols. 1–12 (1887–1912).

*Jahresbericht der Deutschen Mathematiker-Vereinigung*, Vols. 1–10; New Ser., Vols. 11–20 (2 sets, except Vols. 1–4, 10) (1890–1911); *Ergänzungsbände* 2, 4<sub>1</sub> (1908–1910).

*Mathematische Annalen*, Vols. 41–43, 45–72 (1893–1912).

*Mathematische und naturwissenschaftliche Berichte aus Ungarn*, Vols. 1–25 (1882–1910).

*Mittheilungen der mathematischen Gesellschaft in Hamburg*, Vols. 2–4 (1890–1910).

*Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe, Abhandlungen*, Vols. 25–31 (1899–1909); *Berichte*, Vols. 45–63 (1893–1911).

*Zeitschrift für Mathematik und Physik*, Vols. 44–60 (1899–1912).

*Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht*, Vols. 23–29 (1892–1898).

**LEMBERG.**

*Sevckenko-Gesellschaft der Wissenschaften, Chronik, 1904–1910. Sammelnschrift, mathematisch-naturwissenschaftliche Section, Vols. 9–14 (1903–1910).*

**LICK OBSERVATORY, MT. HAMILTON.**

*Lick Observatory Contributions, Vols. 3–5 (1893–1895); Publications, Vols. 1–6, 10 (1887–1907).*

**LIÈGE.**

*Mémoires de la Société Royale des Sciences de Liège, Ser. 2, Vols. 19–20; Ser. 3, Vols. 1–9 (1897–1912).*

**LIMA.**

*Revista de Ciencias, Vols. 1–14 (1898–1911).*

**LIVORNO.** See **LEGHORN.****LONDON.**

*British Association for the Advancement of Science, Reports, 1859–1861, 1863, 1865.*

*Educational Times, Vols. 50–64 (1897–1911).*

*Gentleman's Diary, 1815–1818.*

*Ladies' Diary, 1815–1835, 1837–1840.*

*Journal of the Institute of Actuaries, Vols. 35–46 (1901–1912).*

*London Mathematical Society, Proceedings, Vols. 1–35 (1865–1903); Ser. 2, Vols. 1–10 (1903–1912); Index, Vols. 1–30. List of Members, 1865–1899, 1901, 1903–1907.*

*Mathematical Gazette, Vols. 1–5 (1896–1911).*

*Messenger of Mathematics, Vols. 1–5 (1862–1871); New Series, Vols. 1, 3–9, 24–41 (1872–1912).*

*Penny Cyclopaedia, Vols. 1–27 (1833–1846); Supplement, Vols. 1–2.*

*Quarterly Journal of Pure and Applied Mathematics, Vols. 1–20, 22–28, 31–43 (1857–1912).*

*Royal Society, Philosophical Transactions, Ser. A, Vols. 192–211 (1899–1912); Proceedings, Ser. A, Vols. 62–86 (1898–1912); Year Book, Vols. 1–2 (1896–1898).*

**LUXEMBURG.**

*Institut Grand-Ducal, Publications (Section des Sciences naturelles et mathématiques), Vols. 8–9, 15, 17–21, 23–27 (1865–1904); Archives trimestrielles, Vols. 1–4 (1906–1909).*

**MADRAS.**

*Journal of the Indian Mathematical Club, Vols. 1–3 (1909–1911).*

**MADRID.**

*Archivo de matematicas, 1896–1897 (last).*

*Real Academia de Ciencias, Memorias, Vols. 14, 20, 22–26 (1890–1908); Revista, Vols. 1–10 (1904–1912).*

*Sociedad Matemática Española, Revista, Vol. 1 (1911).*

**MANCHESTER.**

*Memoirs and Proceedings of the Manchester Literary and Philosophical Society, Vols. 37–55 (1892–1911).*

**MARSEILLES.**

*Annales de la Faculté des Sciences de Marseilles, Vols. 11–20 (1901–1911).*

**MEXICO.**

*Memorias y Rivista de la Sociedad Científica Antonio Alzate, Vols. 2–29 (1888–1910).*

## MILAN.

*Annali di Matematica pura ed applicata*, Ser. 2, Vol. 3 (1869); Ser. 3, Vols. 1–18 (1898–1912); General Index, 1850–1897.  
*Reale Istituto Lombardo di Scienze e Lettere, Rendiconti*, Ser. 2, Vols. 33–44 (1900–1912); *Memoire*, Vols. 19–20 (1900–1908).

## MODENA.

*Regia Accademia di Scienze, Lettere, ed Arti, Memorie*, Ser. 3, Vols. 1–9 (1898–1910).

## MONTPELLIER.

*Académie des Sciences et Lettres de Montpellier, Section des Sciences, Mémoires*, Ser. 2, Vols. 1–3 (1893–1908); *Bulletin Mensuel*, Vols. 1–3 (1909–1911).

## MOSCOW.

*Transactions of the Mathematical Society of Moscow*, Vols. 1–27 (1866–1911); Index, Vols. 1–15.  
*University of Moscow, Physico-Mathematical Gazette*, Vols. 1, 4–11, 13–27 (1880–1912).

## MUNICH.

*Hochschul-Nachrichten*, Vol. 13 (1902–1903).  
*Kgl. Bayerische Akademie der Wissenschaften, Math.-Phys. Klasse, Abhandlungen*, Vols. 14–24 (1881–1909); *Sitzungsberichte, Math.-Phys. Klasse*, 1881–1911; Inhaltsverzeichnis 1871–1885; Almanach, 1909.

## NANCY.

*Sphinx-Œdipe*, Vols. 1–6 (1906–1911).

## NAPLES.

*Accademia delle Scienze fisiche e matematiche di Napoli, Atti*, Ser. 2, Vols. 8–14 (1899–1910); *Rendiconti*, Vols. 34–50 (1895–1911); Indice generale dei Lavori, 1737–1903.

## NEW YORK.

*Actuarial Society of America, Papers and Transactions*, Vols. 1–12 (1889–1911). List of Members, 1911.  
*American Mathematical Society, Bulletin*, Vols. 1–18 (1894–1912), General Index, 1891–1904; *Transactions*, Vols. 1–12 (1900–1911) (2 sets), Indexes, Vols. 1–5, 1–10; *Annual Register*, 1891–1905.  
*American Society of Civil Engineers, Transactions*, Vols. 55–74 (1905–1911); *Proceedings*, Vols. 32–33 (1906–1907).  
*Association of Teachers of Mathematics in the Middle States and Maryland, Bulletin*, Vols. 1–3 (1904–1906).  
*New York Mathematical Society, Bulletin*, Vols. 1–3 (1891–1894) (2 sets).  
*Physical Review*, Vols. 16–35 (1903–1912).  
*Science, New Ser.*, Vols. 1–35 (1895–1912).

## NORTHFIELD.

*Astronomy and Astrophysics*, 1892–1894.  
*Popular Astronomy*, Vols. 10–20 (1902–1912).

## ODESSA.

*Society of Naturalists of New Russia, Mathematical Section, Zapiski*, Vols. 7, 16, 19–20, 25–29, 34–36 (1886–1911); Index, Vols. 1–30.  
*Viestnik Opytnoy Fiziki*, Vols. 24–25.

## PALERMO.

*Accademia di Scienze, Lettere e belle Arti di Palermo, Atti*, Ser. 3, Vols. 1-9 (1891-1912).

*Il Pitagora*, Vols. 2-18 (1896-1912).

*Rendiconti del Circolo matematico di Palermo*, Vols. 1-34 (1884-1912); *Annuario*, 1898, 1900, 1904-1910; *Indici delle Pubblicazioni*, 1884-1909, 1887-1911.

## PARIS.

*Académie des Sciences, Comptes rendus*, Vols. 1-65, 136-152 (1837-1911).

*Bulletin des Sciences mathématiques, physiques et chimiques*, Vols. 1-16 (1824-1831).

*Bulletin des Sciences mathématiques et physiques élémentaires*, Vols. 1-10 (1895-1904).

*Bulletin des Sciences mathématiques*, Vols. 1-11; Ser. 2, Vols. 1-2, 27-35 (1870-1911); *General Index*, 1877-1906.

*Bulletin de la Société mathématique de France*, Vols. 1-39 (1872-1911).

*Bulletin de la Société philomathique de Paris*, Ser. 9, Vols. 1-10; Ser. 10, Vols. 1-3 (1898-1911).

*Bureau des Longitudes, Annuaire*, 1903-1906, 1908-1913.

*Ecole Polytechnique, Journal, Cahiers* 3-5, 7-9, 11-14, 16-18, 20-64; Ser. 2, Cahiers 1-16 (1795-1912).

*Institut Catholique, Revue*, Vols. 7-14 (1902-1909) (last); *Bulletin*, Vols. 1-2 (1910-1911).

*Journal de Mathématiques Élémentaires*, Vols. 8-21 (1883-1897).

*Journal de Mathématiques pures et appliquées*, Ser. 5, Vols. 1-6, 8-10 (1895-1904); Ser. 6, Vols. 1-7 (1905-1911).

*L'Éducation mathématique*, Vols. 5-14 (1903-1912).

*L'Enseignement mathématique*, Vols. 4-13 (1902-1911).

*L'Intermédiaire des Mathématiciens*, Vols. 1-18 (1894-1911).

*Nouvelles Annales de Mathématiques*, Ser. 1, Vols. 1-20 (1842-1861); Ser. 2, Vols. 1-18 (1862-1879); Ser. 4, Vols. 3-11 (1903-1911).

*Revue générale des Sciences*, Vols. 13-22 (1902-1911).

*Revue de Mathématiques spéciales*, Vols. 1-3, 4, 7-8 (1890-1906).

## PHILADELPHIA.

*American Philosophical Society, Proceedings*, Vols. 29-50 (1891-1911); *Transactions*, Vols. 20-21 (1902-1908); *List of Surviving Members*, 1892.

*University of Pennsylvania, Publications, Mathematics*, Nos. 1-3 (1897-1905).

## PISA.

*Scuola normale superiore, Annali*, Vols. 1-12 (1871-1912).

## PRAGUE.

*Casopis pro pěstování matematiky a fysiky (Journal of Mathematics and Physics)*, Vols. 21, 23-25, 27-39 (1892-1910); *Index*, Vols. 1-30.

*Jednota českých Matematiků Sborník*, Vols. 1-11 (1898-1908). (See BOOKS OTHER THAN JOURNALS, under PRAGUE.)

*Česká Akademie Césare Františka Josefa pro Vědy, Slovesnost, a Umění (Francis Joseph Bohemian Academy of Sciences, Literature and Art)*, *Rospravy* (The memoirs relating to mathematics only), Vols. 1-20 (1891-1912).

*Královské České Společnosti Náuk, Věstník (Royal Bohemian Academy of Sciences, Proceedings)*, 1899–1902, 1905–1911; *Bulletin International*, Vols. 7–16 (1902–1911); *Jahresberichte*, 1905–1906, 1910–1911; General Index of all Publications, 1884–1904.

PRINCETON.

*Annals of Mathematics*, Ser. 1, Vols. 1–12; Ser. 2, Vols. 1–13 (1884–1912).

RALEIGH.

*Journal of the Elisha Mitchell Scientific Society*, Vols. 9–12 (1892–1895).

RENNES.

*Travaux scientifiques de l'Université*, Vols. 1–6 (1902–1907).

ROME.

*Accademia dei Lincei, Memorie*, Vol. 4; *Rendiconti, Classe delle Scienze fisiche, matematiche, e naturali*, Ser. 5, Vols. 1–7, 9–21 (1892–1912).

*Bolletino di Matematica*, Vols. 1–10 (1902–1911).

*Bulletino di Bibliografia e di Storia delle Scienze matematiche e fisiche*, Vols. 1–20 (1868–1887) (complete).

*Pontificia Accademia dei Nuovi Lincei, Atti*, Vols. 48–64 (1894–1911); *Memorie*, Vols. 15–18 (1898–1901).

*Rivista d'Artiglieria e Genio*, Vols. 1–4, New Ser., Vols. 1–3.

*Societa Italiana delle Scienze, Memorie di Matematica e di Fisica*, Ser. 3, Vols. 12–17 (1904–1912).

*Societa Italiana per il Progresso delle Scienze, Atti*, Vol. 1 (1908).

ROTTERDAM.

*Wiskundig Tijdschrift*, Vols. 1–3, 7–8 (1904–1912).

SAN FRANCISCO.

*Publications of the Astronomical Society of the Pacific*, Vols. 1–24 (1889–1912).

SARAGOSSA.

*Anales de la Facultad de Ciencias*, Vols. 1–2 (1907–1908).

*Boletino de Critica, Enseñanza y Bibliografia matematica*, Vols. 1–2 (1908–1910).

*El Progreso matemático*, Ser. 1, Vols. 1–5 (1890–1895); Ser. 2, Vols. 1–2 (last) (1899–1900).

*Revista trimestral de Matematicas*, Vols. 1–6 (last) (1901–1906).

SENDAI.

*Tôhoku Mathematical Journal*, Vol. 1 (1912).

SPRINGFIELD, MO.

*American Mathematical Monthly*, Vols. 1–18 (1894–1911).

ST. LOUIS.

*Transactions of the St. Louis Academy of Science*, Vols. 5–20 (1886–1912).

STOCKHOLM.

*Acta Mathematica*, Vols. 1–35 (1882–1912).

*Kongl. Svenska Vetenskaps-Akademie, Handlingar, Bihang*, Part 1, Vols. 12–28 (last) (1887–1902); *Arkiv för Matematik, Astronomi, och Fysik*, Vols. 1–7 (1903–1912).

ST. PETERSBURG.

*Académie des Sciences, Bulletin*, Vol. 1, 5–34 (1860–1892), Ser. 5, Vols. 3–25 (1895–1906), Ser. 6, Vols. 1–5 (1907–1911); *Memoires*, Vols. 15–17 (1904–1906).



**STUTTGART.**

*Mathematisch-naturwissenschaftliche Mitteilungen*, Ser. 1, Vols. 1-5 (1884-1892); Ser. 2, Vols. 1-11, 13 (1899-1911).  
*Zeitschrift für Vermessungswesen*, Vols. 31-40 (1902-1911).

**SYRACUSE.**

*The Mathematics Teacher*, Vols. 1-4 (1909-1912).

**TOKYO.**

*Sugaku-Butsurigaku Kwai Kiji (Journal of the Physico-Mathematical Society of Tokyo)*, Vols. 1-5, 7-8; Ser. 2, Vols. 1-5 (1884-1910).

**TOULOUSE.**

*Faculté des Sciences de l'Université de Toulouse, Annales*, Ser. 1, Vols. 1-12; Ser. 2, Vols. 1-10; Ser. 3, Vols. 1-2 (1887-1910).  
*Académie des Sciences de Toulouse, Bulletin*, Vol. 3 (1899-1900);  
*Mémoires*, Ser. 10, Vols. 1-11 (1901-1911).

**TURIN.**

*Bolletino di Bibliografia e Storia delle Scienze matematiche*, Vols. 1-13 (1898-1911).

*Formulaire de Mathématiques*, Vols. 1-5 (1895-1908).

*Accademia delle Scienze, Classe di Scienze fisiche, matematiche e naturali, Atti*, Vols. 30-47 (1895-1912); *Indexes*, Vols. 21-30, 31-40; *Memorie*, Ser. 2, Vols. 48-62 (1899-1912).

*Revue de Mathématiques*, Vols. 1-8 (1891-1906).

**ULM.**

*Jahresheft des Vereins für Mathematik und Naturwissenschaften*, Vols. 9-13 (1899-1907).

**UPSALA.**

*Regia Societas Scientiarum, Nova Acta* (mathematical papers only), Ser. 3, Vols. 7-18; Ser. 4, Vol. 1 (1870-1907).

*Universitets Arsskrift*, 1901-1909.

**VIENNA.**

*Monatshefte für Mathematik und Physik*, Vols. 1-23 (1890-1912).  
*Akademie der Wissenschaften, Sitzungsberichte, Math.-naturwiss. Classe*, Vols. 108-120 (1899-1911).

**WARSAW.**

*Prace matematyczno-fizyczne*, Vols. 1-22 (1888-1911).

*Tablice matematyczne-fizyczne*, 1904.

*Société de Naturalists, Imp. Université de Warsaw, Travaux*, Vols. 1-3, 13-15 (1891-1895, 1902-1904).

*Wiadomosci matematyczne*, Vols. 1-15 (1897-1911).

**WASHINGTON.**

*Mathematical Magazine*, Vol. 2 (1904).

*U. S. Naval Observatory Publications*, Ser. 2, Vols. 1-7 (1900-1911).

*Smithsonian Institution, Reports*, 1885-1887, 1889-1890, 1895-1910.

**ZURICH.**

*Vierteljahrschrift der naturforschenden Gesellschaft*, Vols. 34-56 (1889-1912); *Index*, Vols. 41-50.

## II. BOOKS OTHER THAN JOURNALS. ACCESSIONS IN 1912.

- ADAM, W. *Methodische Anweisung zum Ausziehen der Quadrat- und Kubikwurzel*, Wittstock, 1869.
- AIRY, G. B. *Partial differential equations*, 2d ed., London, 1873.  
*Theory of errors of observations*, London, 1861.
- ARNOUX, G. *Essai de géométrie analytique modulaire à deux dimensions*, Paris, 1911.
- AUTONNE, L. *Sur les groupes commutatifs et pseudo-nuls de quantités hypercomplexes*, Lyons, 1912.
- BACHMANN, P. *Lehre von der Kreisteilung*, Leipzig, 1872.
- BAILEY, E. *First lessons in algebra*, rev. ed., Boston, 1859.
- BAKER, A. H. *Course of algebra*, key, New York, 1878.
- BELFAST. *University Calendar*, 1911-1912.
- BENEDICT, J. T. *First book of algebra*, New York, 1858.
- BERGOLD, L. *Arithmetik und Algebra*, Carlsruhe, 1881.
- BERNOULLI, J. See MASERES, F.
- BERTRAND, J. *Traité d'algèbre*, part 1, 13th ed., Paris, 1884.  
*Traité de calcul différentiel et intégral*, 2 vols., Paris, 1864, 1870.
- BIENENFELD, H. *Praktische Auflösung des theoretischen Teils der Aufgabensammlung von M. Hirsch*, Würzburg, 1870.
- BINNS, W. *Elementary treatise on orthographic projection*, 4th ed., London, 1865.
- BONOLA, R. *Non-euclidean geometry* (English edition by H. S. Carslaw), Chicago, 1912.
- BOOLE, G. *Treatise on the calculus of finite differences*, Cambridge, 1860.
- BOREL, E. *Eléments de la théorie des probabilités*, Paris, 1909.
- BORK, H., and POSKE, F. *Hauptsätze der Arithmetik*, Berlin, 1884.
- BOSSUT, J. *General history of mathematics*, London, 1803.
- BOUCHARLAT, J. L. *Eléments de calcul différentiel et intégral*, 4th ed., Paris, 1830; 7th ed., Paris, 1858.
- BOVIER-LAPIERRE, G. *Traité élémentaire d'approximation numérique*, Lyons, n. d.
- BRISTOL. *University Calendar*, 1912-1913.
- BROMWICH, T. J. I'A. *Elementary integrals*, Cambridge, 1911.
- BROOKS, E. *Normal elementary algebra*, Philadelphia, 1871. *Key*, Philadelphia, 1874.
- BROWN, T. K. *Elementary algebra*, Philadelphia, n. d.
- BRUNO, F. DI. *Théorie générale d'élimination*, Paris, 1869.
- BULLARD, W. G. See METZLER, W. H.
- BURNSIDE, W. *Theory of groups of finite order*, Cambridge, 1897.
- BYERLY, W. E. *Differential calculus*, Boston, 1879.
- BYRNE, O. *The art of dual arithmetic*, Philadelphia, 1878.  
*Method of calculating logarithms*, New York, 1849.
- CAJORI, F. *A history of the logarithmic slide rule and allied instruments*, New York, 1909.
- CALLET, F. *Tables portatives de logarithmes*, Paris, 1825.
- CARL, L. B. *Treatise on the calculus of variations*, New York, 1881.

- CARMICHAEL, R. Treatise on the calculus of operations, London, 1855.
- CARR, G. S. Synopsis of elementary results in pure mathematics, London, 1886.
- CARSLAW, H. S. See BONOLA, R.
- CASEY, J. Treatise on analytical geometry, Dublin, 1881.
- CATALAN, E. Cours d'analyse de l'Université de Liège, Brussels, 1870. *Traité élémentaire des séries*, Paris, 1860.
- CAUCHY, A. L. Cours d'analyse de l'École Royale Polytechnique, Part 1: *Analyse algébrique*, Paris, 1821.
- CAYLEY, A. Elementary treatise on elliptic functions, Cambridge, 1876.
- CHICAGO. Mathematical papers read at the International Mathematical Congress, 1893, New York, 1896.
- CIRODDE, P. L. *Leçons d'algèbre*, 3d ed., Paris, 1860.
- CLARK, S. Sherwin's Mathematical Tables, 5th ed., London, 1771.
- CLEBSCH, A. *Theorie der binären algebraischen Formen*, Leipzig, 1872.
- COCKLE, J., and others. Various papers, 2 vols.
- COLENZO, J. W. Elements of algebra, New York, 1861.
- COLLINS, J. V. Practical algebra, first year course, New York, 1910.
- CONANT, L. L. Five-place logarithmic and trigonometric tables, New York, 1909.
- The number concept, New York, 1910.
- CORRAL, J. I. DEL. Nuevos metodos para resolver ecuaciones numericas, Madrid, 1912.
- COX, H. Rudimentary treatise on the differential calculus, London, 1852.
- CRAIG, T. Treatise on linear differential equations, Vol. 1, New York, 1889.
- CRELLE, A. L. Versuch einer allgemeinen Theorie der analytischen Facultäten, Berlin, 1823.
- DAVIES, C. Elements of analytical geometry and of the differential and integral calculus, New York, 1873.
- New elementary algebra, New York, 1859. Key, New York, 1860.
- University algebra, 2d ed., New York, 1864. Key, 1st ed., New York, 1862.
- DAVIES, C., and PECK, W. G. Mathematical dictionary and cyclopedia of mathematical science, New York, 1857.
- DE MORGAN, A. Arithmetical books, London, 1847.
- Mathematical papers from the Cyclopaedia Metropolitana.
- DISSERTATIONS of members of the AMERICAN MATHEMATICAL SOCIETY:
- FRIZELL, A. B. Foundations of arithmetic, Lawrence, 1912.
- HASKINS, C. N. On the invariants of quadratic differential forms, Lancaster, 1902.
- HILDEBRANDT, T. H. A contribution to the foundations of Fréchet's calcul fonctionnel, Baltimore, 1912.
- HURWITZ, W. A. Randwertaufgaben bei Systemen von linearen partiellen Differentialgleichungen erster Ordnung, Göttingen, 1910.
- LIPKE, J. Natural families of curves in a general curved space of  $n$  dimensions, New York, 1912.
- SMITH, W. M. Simply infinite systems of plane curves, Easton, 1912.
- STAGER, H. W. On numbers which contain no factors of the form  $p(kp + 1)$ , Berkeley, 1912.
- WHITFORD, E. E. The Pell equation, New York, 1912.

## DISSERTATIONS, Other American:

- BELL, E. T. The cyclotomic quinary quintic, Lancaster, 1912.
- HODGSON, J. E. Orthocentric properties of the plane directed  $n$ -line, Lancaster, 1912.
- DODGSON, C. L. Elementary treatise on determinants, London, 1867.
- DRONKE, A. Einleitung in die höhere Algebra, Halle, 1872.
- DUHAMEL, J. M. C. Cours d'analyse, parts 1-2, Paris, 1841-1847.
- EARNSHAW, S. Partial differential equations, London, 1871.
- EIMER and AMEND. Illustrierter Spezialekatalog mathematischer Modelle und Apparate, New York, 1912.
- ELSEE, C. Elements of algebra, 6th ed., Cambridge, 1881.
- EULER, L. Introductio in analysin infinitorum, Vols. 1-2, London, 1797.  
Opera omnia, Ser. 2, Vols. 1-2; Ser. 3, Vol. 4, Leipzig, 1912.
- FICKLIN, J. Key to Complete Algebra, New York, 1880.
- FISCHER, W. L. F. Vega's Logarithmic Tables, 45th ed., London, 1861.
- FISHER, G. E., and SCHWATT, I. J. Textbook of algebra, part 1, Philadelphia, 1898.
- FORSYTH, A. R. Theory of functions of a complex variable, Cambridge, 1893.  
Treatise on differential equations, London, 1885.
- FRENET, M. F. Recueil d'exercices sur le calcul infinitésimal, Paris, 1856.
- FRISCHAUF, J. Lehrbuch der allgemeinen Arithmetik, Graz, 1868.
- GRANVILLE, W. A. Plane trigonometry and tables, Boston, 1908  
Four-place tables of logarithms, Boston, 1908.  
Plane and spherical trigonometry and tables, Boston, 1909.  
Differential and integral calculus, rev. ed., Boston, 1911.  
Plane and spherical trigonometry, teachers' edition, Boston, 1912.  
See SMITH, P. F.
- GREENLEAF, B. New elementary algebra, Boston, 1862; 11th ed., Boston, 1864.  
Key to algebra, Boston, 1864.  
New higher algebra, Boston, 1872.
- GREGORY, D. F. Examples of the processes of the differential and integral calculus, 2d ed., by W. Walton, Cambridge, 1846.
- GRELLE, F. Leitfaden zu den Vorträgen über höhere Mathematik, I, Hannover, 1871.
- GRIFFIN, W. L. Elements of algebra and trigonometry, 5th ed., London, 1882.
- GRÜNFELD, H. P. H. Lehrbuch der Arithmetik, zweiter Cursus, Teil 1, Schleswig, 1872.
- GUNTHER, S. Vermischte Untersuchungen zur Geschichte der mathematischen Wissenschaften, Leipzig, 1876.
- HAAN, D. B. DE. Nouvelles tables d'intégrales définies, Leyden, 1867.  
Réduction des intégrales définies générales, Amsterdam, 1857.
- HADDON, J. Examples and solutions of the differential calculus, new ed., London, n. d.
- HAGAR, D. B. Elementary algebra, Philadelphia, 1875.
- HALSTED, G. B. Elements of geometry, 6th ed., New York, 1891.  
Géométrie rationnelle, Paris, 1911.

- HANN, J. Examples on the integral calculus, London, 1850.
- HARKNESS, J., and MORLEY, F. Treatise on the theory of functions, New York, 1893.
- HAYWARD, R. B. Elements of solid geometry, London, 1890.
- HEIS, E. Sammlung von Beispielen und Aufgaben aus der allgemeinen Arithmetik und Algebra, Cologne, 1886, Schlüssel, Vols. 1-2, Cologne, 1873.
- HENKLE, W. D. See STODDARD, J. F.
- HERMANN, A. Résumé et exercices d'algèbre élémentaire, Paris, 1875.
- HERMITE, C. Cours d'analyse, part 1, Paris, 1873.
- HERRMANN, F. Katechismus der Algebra, Leipzig, 1872.
- HIRSCH, M. See BIENENFELD, H.
- HOCHHEIM, A. Leitfaden für den Unterricht in der Arithmetik und Algebra, Heft 1, Berlin, 1876.
- HOEFER, F. Histoire des mathématiques, Paris, 1874.
- HOFFMANN, F. Sammlung von Aufgaben aus der Arithmetik und Algebra, 3. Teil, Bayreuth, 1876.
- HOFFMANN, L. Mathematisches Wörterbuch, Vols. 1-7, Berlin, 1858-1867.
- HOHR, D. Lehrbuch der Arithmetik, Teile 1-2, Vienna, 1876.
- HOLTZMANN, C. Analysis, Carlsruhe, 1840.
- HOPPE, R. Lehrbuch der Differentialrechnung und Reihentheorie, Berlin, 1865.
- HOUEL, J. Cours de calcul infinitésimal, 3 Vols., Paris, 1878.
- HUTCHINSON, J. I. See SNYDER, V.
- HUTTON, C. Mathematical tables, new ed., London, 1830.  
Tracts on mathematical and philosophical subjects, Vols. 1, 3, London, 1812.
- INTERNATIONAL geodetic association. Comptes rendus des séances, 16me conference, Cambridge, 1909, part 3, rédigé par H. J. van de Sande Bakhuisen, Berlin, 1911.
- JARRETT, T. Essay on algebraic development, Cambridge, 1831.
- JOHNSON, W. W. Elementary treatise on analytic geometry, Philadelphia, 1869.  
Treatise on ordinary and partial differential equations, New York, 1889.
- JONES, G. W. See OLIVER, J. E.
- JORDAN, C. Traité des substitutions et des équations algébriques, Paris, 1870.
- KAMBLY, L. Die Elementar-Mathematik, Teil 1, 7th ed., Breslau, 1865.
- KELLAND, P., and TAIT, P. G. Introduction to Quaternions, London, 1873.
- KLEIN, F. Einleitung in die höhere Geometrie, parts 1-2, Göttingen, 1893.  
Evanston colloquium lectures on mathematics, New York, 1894, 1911.  
Nicht-euklidische Geometrie, part 1, Göttingen, 1892.  
Ueber die hypergeometrische Funktion, Göttingen, 1894.  
Ueber lineare Differentialgleichungen der zweiten Ordnung, Göttingen, 1894.  
Elementarmathematik vom höheren Standpunkte aus, Teil 1: Arithmetik, Algebra, Analysis, 2d ed., Leipzig, 1911.

- KLÜGEL, G. S. *Mathematisches Wörterbuch*, Vols. 1–5, and Supplements, Vols. 1–2, Leipzig, 1803–1836.
- KOHLMANN, W. *Grosse Multiplications-Tabelle*, Abteilung 1, Eilenburg, 1877.
- KOPPE, K. *Anfangsgründe der algebraischen Analysis*, Essen, 1870.  
*Arithmetik und Algebra*, 12th ed., Essen, 1882.
- KRUEGER, L. *Konforme Abbildung des Erdellipsoids in der Ebene*, Leipzig, 1912.
- LACROIX, S. F. *Traité du calcul différentiel et intégral*, 2d ed., 3 Vols., Paris, 1810.
- LAGRANGE, J. L. *Leçons sur le calcul des fonctions*, nouv. ed., Paris, 1806.  
*Théorie des fonctions analytiques*, 3d ed., Paris, 1847.
- LANDEN, J. *Discourse concerning the residual analysis*. London, 1758.
- LAURENT, H. *Traité d'algèbre*, 2 parts, 3d ed., Paris, 1881.
- LEGENDE, A. M. *Essai sur la théorie des nombres*, 2d ed., Paris, 1808.
- LEGRAND, E. *Sommations par une formule d'Euler*, Paris, 1911.
- LENNES, N. J. See SLAUGHT, H. E.
- LEPPER, G. H. *From nebula to nebula*, Pittsburgh, 1912.
- LINDMAN, C. F. *Examen des nouvelles tables d'intégrales définies de M. Bierens de Haan*, Stockholm, 1891.
- LIPSCHITZ, R. *Lehrbuch der Analysis*, Vols. 1–2, Bonn, 1877–1880.
- LOCKHART, J., and others. *Tracts on equations*, n. d.
- LONDON ROYAL SOCIETY. *The record of the Royal Society of London*, 3rd ed., London, 1912.  
*The signatures in the first Journal Book and the Charter Book of the Royal Society*, London, 1912.
- LOOMIS, E. *Elements of analytical geometry and differential and integral calculus*, New York, 1852, 1871.  
*Elements of geometry, conic sections, and plane trigonometry*, New York, 1871.  
*Key to elements of algebra*, New York, 1877.  
*Treatise on algebra*, rev. ed., New York, 1882. *Key*, New York, 1882.  
*Elements of algebra*, rev. ed., New York, 1883.
- LUBSEN, H. B. *Lehrbuch der Arithmetik und Algebra*, Leipzig, 1880.
- LUCAS, E. *Récréations mathématiques*, Vols. 1–2, Paris, 1882–1883.
- MACNIE, J. B. *Theory and solution of algebraic equations*, New York, 1876.
- MARKHOFF, A. A. *Differenzenrechnung*, Leipzig, 1896.
- MARTIN, P. *Théorie et pratique des calculs d'approximation numérique*, Paris, 1864.
- MASERES, F. *James Bernoulli's doctrine of permutations and combinations*, London, 1795.
- MATHEWS, G. B. *Theory of numbers*, part 1, Cambridge, 1892.
- MAUDUIT, E. *Précis d'algèbre*, 8th ed., Paris, 1885.
- MÉRAY, C. *Nouveau précis d'analyse infinitésimale*, Paris, 1872.
- MERRIMAN, M., and WOODWARD, R. S. *Higher mathematics*, New York, 1896.
- METZLER, W. H., ROE, E. D., and BULLARD, W. G. *College algebra*, New York, 1910.

- MEYER, F. See WIEGAND, A.
- MEYER, G. F. Bestimmte Integrale, Leipzig, 1871.
- MOIGNO, F. N. M. Calcul différentiel et intégral, Vol. 4: Calcul des variations, Paris, 1861.
- MONGE, G. Application de l'analyse a la géométrie, Paris, 1809.
- MONTUCLA, J. E. Histoire des mathématiques, 2 Vols., Paris, 1758.
- MORLEY, F. See HARKNESS, J.
- MURPHY, R. Treatise on the theory of algebraic equations, London, 1839.
- MYERS, G. W. First year mathematics for secondary schools, 3d ed., Chicago, 1910.  
Teacher's manual for first year mathematics, Chicago, 1911.
- NEUMANN, K. W. Lehrbuch der allgemeinen Arithmetik und Algebra, Barmen, 1869.
- NICHOLSON, P. Introduction to the method of increments, London, 1817.
- NIELSEN, N. Théorie des fonctions métasphériques, Paris, 1911.  
Beretning om den andern Skandinaviske matematiker-kongres i Kjobenhavn 1911, Copenhagen, 1912.
- OLIVER, J. E., WAIT, L. A., and JONES, G. W. Treatise on algebra, 2d ed., Ithaca, 1887.
- OLNEY, E. First principles of algebra, New York, 1881.
- ORELLI, J. Lehrbuch der Algebra, Teil 1, 3d ed., Zurich, 1877.
- PALMER, O. A. Studies in limits, Enid, 1910.
- PEACOCK, G. Collection of examples of applications of the differential and integral calculus, Cambridge, 1820.
- PEARSON, J. Elements of the calculus of finite differences, 2d ed., Cambridge, 1850.
- PECK, W. G. Differential and integral calculus. New York, 1873.  
Elementary treatise on determinants, New York, 1888.  
Manual of algebra, New York, 1875.  
See DAVIES, C.
- PEIRCE, B. Elementary treatise on curves, functions, and forces, new ed., Boston, 1852.  
Elementary treatise on plane and spherical trigonometry, Boston, 1840.
- PICARD, E. Traité d'analyse, Vols. 1-3, Paris, 1891-1895.  
Oeuvres de Charles Hermite, Vol. 3, Paris, 1912.
- PINCHERLE, S. Algebra elementare, Milan, 1883.
- POINSOT, L. Réflexions sur les principes fondamentaux de la théorie des nombres, Paris, 1845.
- POSKE, F. See BORK, H.
- POTTS, R. Elementary algebra, London, 1886.
- PRYM, F., and ROST, G. Theorie der Prymschen Funktionen erster Ordnung, Leipzig, 1911.
- QUIMBY, E. T. See THOMSON, J. B.
- RANGACARYA, M. The Ganita-Sara-Sangraha of Mahaviracarya, Madras, 1912.
- RAY, J. Primary elements of algebra, Cincinnati, 1866.  
Key to new elementary and higher algebras, Cincinnati, 1867.

- REIDT, F. *Elemente der Mathematik*, Berlin, 1882.  
*Vorschule der Theorie der Determinanten*, Leipzig, 1874.
- ROBINSON, H. N. *New treatise on the elements of the differential and integral calculus*. New York, 1868.  
*Key to university algebra*, New York, 1861.
- ROE, E. D. See METZLER, W. H.
- ROSOTTI, M. A. *Elementi di algebra*, part 1, Turin, 1884.
- ROSS, J. A. *Hirsch's collection of examples, formulae, and calculations of the literal calculus and algebra*, London, 1827.
- RUSSELL, B. A. W. *Essay on the foundations of geometry*, Cambridge, 1897.
- SCHLÖMILCH, O. *Handbuch der Mathematik*, Vol. 1, Breslau, 1880.  
*Übungsbuch zum Studium der höheren Analysis*, Teil 1, 2d ed., Leipzig, 1873.
- SCHRADER, W. *Theorie der endlichen summirbaren Reihen*, Halle, 1871.
- SCHUYLER, A. *Complete algebra*, Cincinnati, 1870.
- SCHWATT, I. J. See FISHER, G. E.
- SCHWEINS, F. *Theorie der Differenzen und Differentiale*, Heidelberg, 1825.
- SCOTT, R. F. *Treatise on the theory of determinants*, Cambridge, 1880.
- SÉGUIER, J. A. DE. *Groupes de substitutions*, Paris, 1912.
- SERRET, J. A. *Cours d'algèbre supérieure*, 3d ed., 2 Vols., Paris, 1866.
- SHERWIN. See CLARK, S.
- SLAUGHT, H. E., and LENNES, N. J. *High school algebra*, 2 vols., Boston, 1907-1908.  
*First principles of algebra*, 2 vols., Boston, 1912.
- SMITH, D. E. *Topical primary arithmetic*, Boston, 1912.  
 See WENTWORTH, G.
- SMITH, J. *Curiosities of mathematics*, London, 1870.
- SMITH, J. H. *Elementary algebra*, London, 1885.
- SMITH, P. F., and GRANVILLE, W. A. *Elementary analysis*, Boston, 1910.
- SNYDER, V., and HUTCHINSON, J. I. *Elementary textbook on the calculus*, New York, 1912.
- SPIEKER, T. *Lehrbuch der Arithmetik und Algebra*, Teil 1, 2d ed., Potsdam, 1881.
- SPITZ, C. *Erster Cursus der Differential- und Integralrechnung*, Leipzig, 1871.
- STANLEY, A. D. *Elementary treatise of solid geometry*, New Haven, 1854.
- STEGMANN, F. L. *Lehrbuch der Variationsrechnung*, Cassel, 1854.
- STE. MARIE, C. F. *Etudes analytiques sur la théorie des parallèles*, Paris, 1871.
- STERN, M. A. *Lehrbuch der algebraischen Analysis*, Leipzig, 1860.
- STODDARD, J. F., and HENKLE, W. D. *Algebra*, New York, 1887.  
*Complete key to elementary algebra*, New York, 1863.
- STRAUCH, G. W. *Theorie und Anwendung des sogenannten Variations-calculs*, 2 Vols., 2d ed., Zurich, 1854.
- STURM, C. *Cours d'analyse*, Vols. 1-2, Paris, 1877-1879.



- SUTER, H. *Geschichte der mathematischen Wissenschaften*, Zurich, 1875.
- SYDNEY. *University calendar*, 1912.
- TAIT, P. G. *Elementary treatise on quaternions*, 2d ed., Oxford, 1873.  
See KELLAND, P.
- TARNIER, E. A. *Éléments d'arithmétique théorique et pratique*, 5th ed., Paris, 1861.
- TAYLOR, J. M. *Elements of the differential and integral calculus*, Boston, 1884.  
Plane and spherical trigonometry, Boston, 1905.  
Five-place logarithmic and trigonometric tables, Boston, 1905.
- TEIXEIRA, F. G. *Obras sobre mathematica*, Vol. 3, Coimbra, 1906.
- THOMSON, J. B. *New practical algebra*, New York, 1885.
- THOMSON, J. B., and QUIMBY, E. T. *Collegiate algebra*, New York, 1884.
- TISSERAND, F. *Récueil complémentaire d'exercices sur le calcul infinitésimal*, Paris, 1877.
- TODHUNTER, I. *History of the progress of the calculus of variations*, Cambridge, 1861.  
History of the theory of probability, Cambridge, 1865.  
Treatise on the integral calculus, 3d ed., London, 1868, 1886.  
Researches in the calculus of variations, London, 1871.  
Treatise on the differential calculus, 6th ed., London, 1873.  
Theory of equations, 3d ed., London, 1875.
- U. S. BUREAU of Education. *Reports of the American committees of the international commission on the teaching of mathematics*, Washington, 1911-1912.
- VACQUANT, C. *Leçons d'algèbre élémentaire*, nouv. ed., Paris, 1885.
- VEGA, G. See FISCHER, W. L. F.
- VENABLE, C. S. *Higher school algebra*, New York, 1881.
- VERGER, O. *Introduzione all' algebra*, Turin, 1881.
- VOLTERRA, V. *Sur quelques Progrès récents de la physique mathématique*, lectures delivered at the celebration of the twentieth anniversary of the founding of Clark University, Worcester, 1912.
- WAIT, L. A. See OLIVER, J. E.
- WALBERER, J. C. *Leitfaden zum Unterricht in der Arithmetik und Algebra*, Munich, 1876.
- WALTERSHAUSEN, W. S. VON. *Gauss zum Gedächtniss*, Leipzig, 1856.
- WALTON, W. See GREGORY, D. F.
- WARD, S. See YOUNG, J. R.
- WENTWORTH, G., and SMITH, D. E. *Arithmetic*, book 1, Boston, 1911.  
Plane and solid geometry, Boston, 1911.  
Work and play with numbers, Boston, 1912.  
New York State arithmetic, years three and four, five and six, five and eight, Boston, 1911-1912.
- WENTWORTH, G. A. *Complete algebra*, Boston, 1885.
- WHITTAKER, E. T. *The theory of optical instruments*, Cambridge, 1907.
- WIEGAND, A. *Arithmetik und Algebra*, 7th ed., von F. Meyer, Halle, 1880.
- WILLIAMSON, B. *Differential calculus*, London, 1872.  
*Integral calculus*, 3d ed., London, 1880.
- WILSON, J. *First elements of the theory of series and differences*, London, 1822.

- WITTSTEIN, T. Lehrbuch der Elementar-Mathematik, Vol. 3, part 1: Analysis, Hannover, 1872.
- WOODLOCK, P. D. Important mathematical discoveries, Columbia, 1912.
- WOODWARD, R. S. See MERRIMAN, M.
- WOOLHOUSE, W. S. B. Elements of the differential calculus, 6th ed., London, 1874.
- YOUNG, J. R. Elements of the integral calculus. Philadelphia, 1830.  
Elementary treatise on algebra, Amer. ed. by S. Ward, jr., Philadelphia, 1832.  
Elements of geometry, rev. ed., Philadelphia, 1833.
- ZECH, J. Tafeln der Additions- und Subtractions-logarithmen für sieben Stellen, 2d ed., Berlin, 1863.