

## Brief Short-Title List of Published Works on the History of Science

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The present brief list was compiled primarily for the use of students in a course on the History of Science offered by the senior author at Southern Methodist University. It is far from complete: scholars conversant with the field will note omission of works they consider of primary importance, and the inclusion of others, to them of secondary interest. We are not sure that in every case our omissions and inclusions are fully defensible; but it is believed that this bibliography includes a very large proportion of the best works on the subject in hand. The number of books on the history of biology is here kept at a minimum, as (for a special course given in that subject) a detailed bibliography of some 150 titles has been prepared elsewhere. In the present course, only a general overview of progress in the biological field is presented; and chief emphasis is laid on historical developments in mathematics, physics, chemistry, and the earth-sciences. The titles are arranged alphabetically by authors, *with dates of appearance of the particular edition listed, following the author's name.* Sometimes (though at the risk of appearing pedantic) we give notes regarding the time of original appearance, and significant editions, of the work cited.

Titles are also listed of some of the important works on the history of philosophy, especially as they apply to the history of science. These are included not only because of their importance to students of the history of science, but also because it is conceived that their inclusion will be helpful to students of courses on the philosophy of science.

The list includes, of course, a number of books far in excess of the capacity of students to consult in a *general* course on the history of science. We conceive, however, that it is useful to call the attention of students to a number of marginal works that may be a source of great inspiration to them. Such works as Westaway's *Scientific Method*, Karl Pearson's *Grammar of Science*, Sarton's *History of*

*Science and the New Humanism*, Barnes' *Scientific Theory and Religion*, Haskins' magisterial works on the culture of the Renaissance, T. H. Huxley's critique of Hume, William Keith Brooks' *Foundations of Zoology*, Whitehead's *Science and the Modern World*, and Buckle's *History of Civilization in Europe* are but a few of many such marginal books that the student will find of great value.

The inclusion of many German and French titles, and a few Italian ones, is not for ostentation, but an index of the international character of science. As Moulton and Schiffferes, in their admirable *Autobiography of Science*<sup>1</sup> have pointed out, the continuing tradition of science has lived in many lands and through many tongues. As they say:

Science did not originate at only one time or place or among only one people or under any particular form of government or religion, nor was it permanently recorded in only one language or by one race. Moses led his people out from Egyptian slavery, Hippocrates practiced the arts of healing in a small island south of Greece, and Archimedes was drawing geometrical figures in Sicilian sand when Roman soldiers struck him down. Copernicus in tragic Poland and Galileo in historic Italy, using astronomical observations made by Babylonians and Greeks two thousand years earlier, proved the heliocentric theory of the planetary system. . . . Lucretius and Pliny were from proud Rome, Harvey and Bacon and Newton and Darwin from England; Huygens and Leeuwenhoek from Holland; Descartes and Pascal and Cuvier and Pasteur from France; Lyell and Clerk Maxwell from Scotland; Lord Kelvin from Ireland; Mendel and Freud from Austria; Linnaeus and Arrhenius from Sweden; Mme. Curie, as well as Copernicus, from Poland; von Humboldt, and Liebig and Wöhler and Einstein from Germany; Mendelyeef from Russia; Bohr from Denmark; Maeterlinck from Belgium; Rutherford from New Zealand; Osler from Canada; and Franklin and Henry and Langley from the United States. These names are a few from the many which must appear in any autobiography of science. If the list were more nearly complete and suitable quotations available, names would appear also of men who lived and learned in Crete, in Persia, in Assyria, in Babylonia, in Sumeria, in India, and in China.

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<sup>1</sup>Forest Ray Moulton and Justus J. Schiffferes. *The Autobiography of Science*. Garden City: Doubleday, Doran and Company, xxxi + 666 pp.

*List of Books*

NOTE: In this bibliography, international publishers (Macmillan, Longmans, Cassell) are given no place of publication. Abbreviations of place-names employed for some others are as follows: *L* (= London for English, and Leipzig for German books); *B* (= Berlin for German books), and *P* (= Paris for French books.) American publishers except in the case of older dates are given no place-names.

- ABELSON, Paul (1906). *The seven liberal arts, a study in mediaeval culture*. Columbia Tchrs. College.
- D'ABRO, A. (1927). *The evolution of scientific thought from Newton to Einstein*. Boni & Liveright.
- ADAMS, Frank Dawson (1938). *Birth and development of the geological sciences*. Williams & Wilkins.
- ADAMS, Grace Kinckle (1931). *Psychology: science or superstition?* Covici-Friede.
- ADELMANN, Howard B. (1942). *The embryological treatises of Hieronymus Fabricius of Aquapendente*. Cornell.
- D'ADHEMAR, Robert (1914). *Henri Poincaré*. P, Gauthier-Villars.
- AGAR, William Macdonough (1940). *Catholicism and the progress of science*. Macm.
- AGASSIZ, Elizabeth Cary (1885). *Louis Agassiz, his life and correspondence*. Houghton-Mifflin.
- AGASSIZ, Louis (1859). *An essay on classification*. Longmans.
- AIRY, George Biddle (1896). *Autobiography*. Putnam's; Cambridge.
- ALLBUTT, Thomas Clifford (1901). *Science and mediaeval thought*. L, C & J Clay.
- (1905). *The historical relations of medicine and surgery to the end of the 16th Century*. Macm.
- (1921). *Greek medicine in Rome*. Macm.
- ALLMAN, George Johnston (1889). *Grecck geometry from Thales to Euclid*. Longmans.
- ANDERSON, William James & Richard Phené SPIERS (1927). *The architecture of Greece and Rome*. Scribner's. [1st ed. 1902; 2, 1907.]
- ANDRE-POINTIER, L. (1900). *Histoire de la pharmacie*. P, Doin.
- APPLEYARD, Rollo (1930). *Pioneers of electrical communication*. Macm.
- ARAGO, Dominique François Jean (1857). *Biographies of distinguished scientific men*. Longmans.
- ARBER, Agnes Robertson (1938). *Herbals, their orgin and evolution*. Macm. [1st publ. 1912 by Putnam's; Cambridge.]
- ARMITAGE, Angus (1938). *Copernicus, the founder of modern astronomy*. Norton.
- ARMITAGE, Francis Paul (1906). *A history of chemistry*. Longmans.
- ARMSTRONG, Edward Franklin, *ed.* (1904). *Chemistry in the 20th Century*. Macm.
- ARNOLD, Thomas Walker & Alfred GUILLAUME, *eds.* (1931). *The legacy of Islam*. Oxford.
- ARRHENIUS, Svante August (1912). *Theories of chemistry*. Yale. [1st ed. (1907) by Longmans.]
- ARTHUR, James (1909). *Time and its measurement*. Chicago U.

- AULT, Warren Ortman (1937). Europe in the middle ages. Heath.  
[1st issue, 1932.]
- AYKROYD, Wallace Ruddell (1935). Three Philosophers. [Lavoisier,  
Priestley, Cavendish.] L, Heinemann.
- BAAS, Johann Hermann (1876). Grundriss der geschichte der medicin.  
Stuttgart, Enke.
- \_\_\_\_\_. (1889). Outlines of the history of medicine. NY, Vail.
- \_\_\_\_\_. (1896). Die geschlechtliche entwicklung des aertzlichen  
standes und der medicinischen wissenschaften. B, Wreden.
- BAILEY, Cyril, ed. (1926). The mind of Rome. Oxford.
- \_\_\_\_\_. (1928). The legacy of Rome. Oxford. [Repr. of 1st ed., 1923.]
- \_\_\_\_\_. (1928). The Greek atomists and Epicurus. Oxford.
- BAKER, John Norman Leonard (1932). History of geographical study  
and exploration. Houghton-Mifflin.
- BALDWIN, James Mark (1909). Darwin and the humanities. Balto.,  
Review Publ. Co.
- \_\_\_\_\_. (1913). History of psychology. 2 v. Putnam's.
- BALL, Robert Staywell (1901). Great astronomers. Putnam's. [1st  
issue, L, Isbister, 1895.]
- BALL, Walter William Rouse (1895). A primer of the history of mathematics. Macm.
- \_\_\_\_\_. (1915). A short account of the history of mathematics, 6th  
ed. Macm. [Ed. 1, 1893; 2, 1895; 5, 1912.]
- BARNES, Ernest William (1933). Scientific theory and religion. Macm.
- BARNES, Harry Elmer (1925). The new history and the social studies.  
Century.
- BAUER, Hugo (1905-06). Geschichte der chemie. 2 v. L, Goeschens.
- \_\_\_\_\_. (1907). A history of chemistry. L, Arnold; Longmans.
- BELL, Eric Temple (1937). Men of mathematics. Simon & Schuster.
- \_\_\_\_\_. (1940). The development of mathematics. McGraw-Hill.
- BENSON, Allan Louis (1927). The story of geology. NY, Cosmopolitan.
- BERENDES, Julius (1898). Geschichte der pharmacie. L, Günther.
- BERGER, Hugo (1903). Geschichte der wissenschaftlichen erdkunde der  
Griechen, 3d ed. L, Veit.
- BERNHARD, Oskar (1925). Pflanzenbilder auf griechischen und römi-  
schen münzen. Zürich, Füssli.
- BERRY, Arthur (1899). A short history of astronomy. Scribner's. [1st  
issue, L, John Murray, 1898.]
- BERTALANFFY, Ludwig von (1932). Theoretische biologie. B, Born-  
traeger.
- \_\_\_\_\_. (1933). Modern theories of development. Oxford.
- BERTHELOT, Marcelin Pierre Eugène (1938). Les origines de l'alchemie.  
P, Libr. d. Sci. et d. Artes; reissue of 1885, P, Steinheil.
- \_\_\_\_\_. (1893). Histoire des sciences. La chemie au moyen âge. P,  
Imprimerie Nationale.
- BERTRAND, Joseph Louis François (1869). L'Academie des Sciences et  
les académiciens de 1666 à 1793. P, Hetzel.
- BERZELIUS, Jöns Jakob & Justus von LIEBIG (1901). Briefwechsel. L,  
Engelmann. [Earlier issue at München, 1892.]

- BERZELIUS, Jöns Jakob & Friedrich WOEHLER (1901). *Briefwechsel*. L, Engelmann.
- BIRCH, Thomas (1756-57). *The history of the Royal Society of London*. 4 v. L, Millar.
- \_\_\_\_\_(1744). *The life of the Honorable Robert Boyle*. L, Millar.
- BLIGH, E. W. (1931). *Sixty centuries of health and physic*. L, Low-Marston.
- BLOMSTRAND, Christian Wilhelm (1869). *Die chemie der jetztzeit*. Heidelberg.
- BOELSCHÉ, Wilhelm (1905). *Ernst Haeckel, ein lebensbild*. L, Seemann.
- \_\_\_\_\_(1905). *Haeckel, his life and work*. L, Unwin.
- BONAR, James (1885). *Malthus and his work*. Harper; L, MacMillan. [Repr. Macm., 1924, w. addns. and corrections.]
- BONNER, Willard Hallam (1934). *Captain William Dampier ... and English travel literature*. Stanford; Oxford.
- BONALA, Roberto (1912). *Non-Euclidean geometry*. Open Court.
- BORING, Edwin Garrigues (1929). *History of experimental psychology*. Century.
- BOUCHE-LECLERQ, Auguste (1899). *L'astrologie grecque*. P, Leroux.
- BOULTING, William (1916). *Giordano Bruno*. L, Kegan-Paul.
- BOURNE, Gilbert Charles (1910). *Herbert Spencer and animal evolution*. Oxford.
- BOWEN, Frank Charles (1930). *A century of Atlantic travel, 1830-1930*. Little-Brown.
- BOWER, Frederick Orpen (1919). *Joseph Dalton Hooker*. Macm.; L, SPCK.
- \_\_\_\_\_(1938). *Sixty years of botany in Great Britain*. Macm.
- BRADFORD, Gamaliel (1926). *Charles Robert Darwin, 1809-1882*. Houghton-Mifflin.
- BREASTED, James Henry (1905). *History of Egypt*. Scribner's.
- \_\_\_\_\_(1909). *History of ancient Egyptians*, 2d ed. Scribner's.
- \_\_\_\_\_(1935). *Ancient times*. Ginn.
- BRETT, George Sidney (1912-21). *History of psychology*. 3 v. Macm.
- BREWSTER, David (1885). *Memoirs of Sir Isaac Newton*. Edin., Constable.
- \_\_\_\_\_(1880). *Martyrs of science*. Harper. [1st issue, 1841.]
- BREWSTER, Edward Tenney (1927). *Creation: a history of non-evolutionary theories*. Bobbs-Merrill.
- BRIDGES, Thomas Charles (1925). *The book of invention*. L, Harrap.
- BRIDGES, Thomas Charles & Herbert Hessell TILTMAN (1935). *Master minds of modern science*. NY, MacVeagh; L, Harper.
- BRITTON, Henry Thomas Stanley (1931). *Chemistry, life and civilization*. L, Chapman.
- BROAD, Charlie Dunbar (1923). *Scientific thought*. Harcourt-Brace.
- BRODETSY, Selig (1927). *Sir Isaac Newton*. L, Methuen; Luce, 1928.
- BROOKS, William Keith (1899). *The foundations of zoology*. Macm.
- BROWN, Harcourt (1934). *Scientific organizations in 17th Century France*. Williams & Wilkins.

- BROWN, James Campbell (1913). A history of chemistry. Blakiston; L, Churchill.
- BROWNE, Edward Granville (1921). Arabian medicine. Macm.
- BRUNET, Pierre (1931). Introduction des théories de Newton en France avant 1738. P, Blanchard.
- BRYANT, Walter William (1907). A history of astronomy. Dutton.  
\_\_\_\_\_(1918). Galileo. L, SPCK.  
\_\_\_\_\_(1920). Kepler. Macm.
- BUCK, Albert Henry (1917). The growth of medicine... to about 1800. Yale.
- BUCKLE, Henry Thomas (1857-60). History of civilization in Europe. [Ed. 1, 1857-60; 2, 1870. American reprints by Appleton.]
- BUCKLEY, Arabella Burton (1894). A short history of natural science, 5th ed. L, Stanford.
- BUCKLEY, Harold (1928). A short history of physics. Van Nostrand.
- BUDGE, Ernest Alfred Wallis (1902). History of Egypt. L, Kegan-Paul.  
\_\_\_\_\_(1925). Babylonian life and history. L, Relig. Tract Soc.  
\_\_\_\_\_(1928). The divine origin of the craft of the herbalist. L, Culpepper House.
- BUGGE, Günther (1929-30). Das buch der grossen chemiker. 2 v. B, Verlag Chemie.
- BULLOCH, William (1938). The history of bacteriology. Oxford.
- BUNBURY, Edward Herbert (1883). A history of ancient geography, 2d ed. 2 v. L, John Murray. [1st ed., 1879.]
- BURCKHARDT, Rudolf (1921). Geschichte der zoologie, 2d ed. L, Goesschen. [1st ed. 1907.]
- BURNET, John (1908). Early Greek philosophy, 2d ed. L & Edin., A. & C. Black. [1st issue, 1892; 3d ed., 1920.]  
\_\_\_\_\_(1914). Greek philosophy, Part I. Thales to Plato. [all ptd.] L, Macm. [Ed. 1, 1914; repr. 1920, 1928.]
- BURTT, Edwin Arthur (1925). The metaphysical foundations of modern science. Harcourt-Brace.
- BURY, John Bagnell (1902). History of Greece to the death of Alexander the Great. Macm. [1st ptd., 1900; 1913 edn. repr. 1937 in "Modern Library Giants."]  
\_\_\_\_\_(1913). History of freedom of thought. Holt.  
\_\_\_\_\_(1923). History of the later Roman Empire. Macm. [1st issue 1889.]  
\_\_\_\_\_(1932). The idea of progress. Macm. [1st issue, 1920.]
- BUSCHAN, Georg H. T. (1895). Vorgeschichtliche botanik. Breslau.
- BUTCHER, Samuel Henry (1893). Some aspects of the Greek genius. Macm. [1st issue 1891.]
- BUTLER, Samuel (1879). Evolution, old and new. Salem, Mass., Cassino. [Repr. 1914, Dutton.]
- CAJORI, Florian (1919). A history of mathematics. Macm. [1st ed. 1895.]  
\_\_\_\_\_(1928-29). A history of mathematical notations. 2 v. Open Court.

- (1929). *A history of physics in its elementary branches*. Macm. [1st ed. 1899.]
- CAMPBELL, Anna Montgomery (1931). *The Black Death and men of learning*. Columbia.
- CAMPBELL, Donald Edward Henry (1926). *Arabian medicine and its influence on the middle ages*. L, Kegan-Paul.
- CAMPBELL, Lewis & William GARNETT (1882). *The life of James Clark Maxwell*. L, Macm. ["New ed., rev. and abridged, 1884."]
- CANTOR, Moritz Benedikt (1894-1908). *Vorlesungen ueber die geschichte der mathematik*, 2d ed. 4 v. L, Teubner.
- CARUS, Julius Victor (1872). *Geschichte der zoologie bis auf Johannes Müller and Charl. Darwin*. München, Oldenbourg.
- CASTIGLIONI, Arturo (1941). *A history of medicine*. Knopf.
- CAVEN, Robert Martin (1926). *The foundations of chemical theory*, 2d ed. L, Blackie. [1st ed., 1920.]
- CELINE, Louis Ferdinand [=Destouches, L. F.] (1937.) *Mea culpa, and the life and work of Semmelweis*. Little-Brown.
- CHASE, Charles Trueblood (1932). *History of experimental physics*. Van Nostrand.
- (1936). *Frontiers of science*. Van Nostrand.
- CLAGETT, Marshall (1941). *Giovanni Marliani and late mediaeval physics*. Columbia.
- CLARK, George Norman (1936). *Science and social welfare in the age of Newton*. Oxford.
- CLAY, Reginald Stanley & Thomas H. COURT (1932). *The history of the microscope*. L, Griffin.
- CLERKE, Agnes Mary (1901). *The Herschels and modern astronomy*. Cassell.
- (1902). *A popular history of astronomy during the 19th Century*, 4th ed. Macm.
- (1905). *Modern cosmogonies*. L, A. & C. Bla ck.
- CLODD, Edward (1897). *Pioneers of evolution from Thales to Huxley*. Appleton.
- (1902). *Thomas Henry Huxley*. Dodd-Mead.
- COCHRANE, James Arthur (1931). *Lavoisier*. L, Constable.
- COHEN, I Bernard (1941). *Benjamin Franklin's experiments*. Harvard.
- COHEN, Morris Raphael (1931). *Reason and nature*. Harcourt-Brace.
- (1934). *An introduction to logic and scientific method*. Harcourt-Brace.
- COLE, Francis Joseph (1926). *The history of protozoology*. London U.
- (1930). *Early theories of sexual generation*. Oxford.
- (1944). *History of comparative anatomy*. Macm.
- COLEBY, Leslie James Moger (1938). *The chemical studies of P. J. Macquer*. L, Allen & Unwin.
- COLLIE, George Lucius & Hiram Delos DENSMORE (1932). *Chamberlin and Salisbury, life partners*. Madison, Wisc., State Hist. Soc.
- COLLIE, John, ed. (1933). *Recent progress in medicine and surgery, 1919-1933*. L, H. K. Lewis.
- COLLINS, Archie Frederick (1936). *March of chemistry*. Lippincott.

- CONTENAU, Georges (1938). *La médecine en Assyrie et en Babylonie.* P, Maloine.
- COOLIDGE, Julian Lowell (1940). *A history of geometrical methods.* Oxford.
- CORNER, George Washington (1927). *Anatomical texts of the earlier middle ages.* Carnegie Instn., Washington.
- COUNTRYMAN, Morton Alden, *et al.* (1938). *Exploring the mysteries of physics and chemistry.* Consolidated.
- COWAN, Andrew Reid (1923). *Guide to world history.* Longmans.
- CRESSY, Edward (1914). *Discoveries and inventions of the 20th Century.* L, G. Routledge.
- \_\_\_\_\_(1937). *A hundred years of mechanical engineering.* Macm.
- CREW, Henry (1935). *Rise of modern physics.* Williams & Wilkins.
- CROISET, Maurice (1925). *Hellenic civilization.* Knopf.
- CROWTHER, James Arnold (1920). *The life and discoveries of Michael Faraday.* Macm. [1st ed., 1918, L, SPCK.]
- CROWTHER, James Gerald (1934). *The progress of science.* L, Kegan-Paul.
- \_\_\_\_\_(1936). *Men of science.* Norton.
- \_\_\_\_\_(1937). *Famous American men of science.* Norton.
- CURIE, Eve (1937). *Madam Curie.* Doubleday-Doran.
- CURIE, Marie (1932). *Pierre Curie.* Macm.
- CURTIS, John Green (1915). *Harvey's views on the use of the circulation of the blood.* Columbia.
- CURTIS, Winterton Conway (1922). *Science and human affairs from the viewpoint of biology.* Harcourt-Brace.
- CUSHMAN, Allerton Seward (1920). *Chemistry and civilization.* Badger.
- CUVIER, Georges Léopold Chrétien Frédéric Dagobert (1841-45). *Histoire des sciences naturelles.* 5 v. [Repr. of 1834-36, 5 v., P, Pourrat frères.]
- DALTON, John Call (1882). *The experimental method in medical science.* Putnam's.
- \_\_\_\_\_(1884). *Doctrines of the circulation.* Phila., Lea.
- DAMPIER, William Cecil (1912). *Science and the human mind.* Longmans.
- \_\_\_\_\_(1924). *Cambridge readings in the literature of science.* Cambridge.
- \_\_\_\_\_(1924). *The recent developments of physical science.* L, John Murray.
- \_\_\_\_\_(1942). *A history of science and its relations with philosophy and religion,* 3d ed. Macm.; Cambridge. [Ed. 1, 1929; 2, 1930.]
- DANA, Edward Salisbury (1918). *A century of science in America.* Yale.
- DANNEMANN, Friedrich (1902-03). *Grundriss einer geschichte der naturwissenschaften.* 2 v. L, Engelmann. [1st ed. 1896-98.]
- \_\_\_\_\_(1920-23). *Die naturwissenschaften in ihrer entwicklung und in ihrem zusammenhange.* 2d ed. 4 v. L, Engelmann. [1st ed. 1910-13.]

- (1922). *Aus dem werkstatt grosser forscher*, 4th ed. L, Engelmann.
- DAREMBERG, Charles Victor (1865). *La médecine: histoire et doctrines*. P, Didier et Bailliére.
- (1870). *Histoire des sciences médicales*. 2 v. P, Bailliére.
- DARK, Sidney (1923). *The story of the renaissance*. L, Hodder & Stoughton.
- DARROW, Floyd Lavern (1923). *Masters of science and invention*. Harcourt-Brace.
- (1927). *The story of chemistry*. Bobbs-Merrill.
- (1932). *New world of physical discovery*. Bobbs-Merrill.
- DARWIN, Charles Galton (1931). *The new conception of matter*. Macm.; L, G. Bell.
- DARWIN, Charles Robert (1872). *The origin of species*, 6th ed. Appleton.
- (1874). *The descent of man*, 2d ed. Appleton. [The 2 preceded titles bound in one v. in "Modern Library Giants."]
- (1892). *Autobiography and letters* [Francis Darwin, ed.] Appleton.
- DARWIN, Francis (1888). *Life and letters of Charles Darwin*. 2 v. Appleton.
- DAVIES, Arthur Morley (1937). *Evolution and its modern critics*. L, Murby.
- DAVIS, Nathan Smith (1851). *History of medical education and institutions in the U. S.* Chicago, Griggs.
- (1903). *History of medicine*. Chicago, Cleveland Press.
- DAVY, Humphry (1839-40). *Collected works*. [ed., John Davy.] 9 v., Smith-Elder.
- DAVY, John (1836). *Memoirs of the life of Sir Humphry Davy*. Longmans; repr. 1839 by L, Smith-Elder.
- DAWSON, Bernard (1931). *The history of medicine, a short synopsis*. L, H. K. Lewis.
- DAWSON, Warren Royal (1930). *The beginnings, Egypt and Assyria*. Hoeber.
- DAY, Clive (1922). *A history of commerce*. Longmans. [Edns. 1907, 1914.]
- DEKRUIF, Paul (1926). *Microbe hunters*. Harcourt-Brace.
- DELAMBRE, Jean Baptiste Joseph (1817). *Historie de l'astronomie ancienne*. 2 v. P, Courcier.
- (1819). *Histoire de l'astronomie du moyen âge*. P, Courcier.
- (1821). *Histoire de l'astronomie moderne*. 2v. P, Courcier.
- (1827). *Histoire de l'astronomie au dix-huitième siècle*. P, Bachelier.
- DEMORGAN, Augustus (1914). *Essays on the life and work of Newton*. Open Court.
- DESCOUR, L. (1922). *Pasteur and his work*. L, Unwin.
- DEWAR, Douglas (1931). *Difficulties of the evolution theory*. L, Arnold.
- DIBLE, James Henry (1932). *Recent advances in bacteriology*. Blakiston. [1st issue, L, Churchill, 1929.]

- DICKINSON, Robert Eric & Osbert John Radcliffe HOWARTH (1933). *Making of geography*. Oxford.
- DIELS, Hermann (1920). *Antike technik*, 2d ed. L & B, Teubner. [1st ed., 1914.]
- DOBELL, Clifford (1932). *Antony Van Leeuwenhoek and his "little animals."* Harcourt-Brace.
- DORSEY, George Amos (1927). *The evolution of Charles Darwin*. Doubleday.
- DRAPER, Arthur L. & Marian LOCKWOOD (1929). *Story of astronomy*. Dial Press.
- DRAPER, John William (1875). *History of the conflict between religion and science*, 3d ed. Appleton.
- \_\_\_\_\_. (1876). *History of the intellectual development of Europe*, rev. ed. 2 v. Harper.
- DREYER, John Louis Emil (1906). *History of the planetary systems from Thales to Kepler*. Putnam's; Cambridge. [Reissue, Macm.]
- \_\_\_\_\_. (1890). *Tycho Brahe, a picture of scientific life and work in the 16th Century*. Edin., A. & C. Black.
- DRIESCH, Hans (1905). *Der vitalismus als geschichte und als lehre*. L, Barth.
- \_\_\_\_\_. (1929). *Science and philosophy of the organism*, 2d ed. L, A. & C. Black.
- DROYSEN, Johann Gustav (1886). *Allgemeiner historischer handatlas*. Bielefeld & L, Volhagen & Klasing.
- DUHEM, Pierre Maurice Marie (1913-17). *Le système du monde: histoire des doctrines cosmologiques de Platon à Copernic*. 5 v., P, Hermann.
- DUKES, Clement (1924). *Lord Lister (1827-1912)*. Small-Maynard.
- DUNCAN, Peter Martin (1882). *Heroes of science. Botanists, zoologists and geologists*. L, SPCK; NY, E. & J. B. Young.
- DUNLAP, Orrin Elmer (1927). *The story of radio*. Dial Press.
- ECKERMAN, Johann Peter (1837). *Gespraeche mit Goethe*. 2 v. Leipzig. [Many reprints.]
- EDMUND, Edward William & John Bright HOBLYN (1911). *Story of five elements*. Cassell.
- EINSTEIN, Albert & Leopold INFELD (1938). *Evolution of physics*. Simon & Schuster.
- ENRIQUES, Federigo (1914). *Problems of science*. Open Court. [Transl. of his 1906 "Problemi della scienza," Bologna.]
- \_\_\_\_\_. (1938). *Le matematiche nella storia e nella cultura*. Bologna, Zanichelli.
- ERDMANN, Johann Eduard (1890-92). *History of philosophy*, 2d ed. 3 v. Macm.
- ERMAN, Adolf (1894). *Life in ancient Egypt*. Macm.
- EVANS, Arthur John (1921-35). *Palace of Minos... at Knossos*. 4 v. in 6. Macm.
- EVE, Arthur Stewart (1922). *Physics a hundred years ago*. McGill U. Lby.

- EVEREST, Arthur Ernest (1935). *Fifty years of chemistry*. L, Inst. of Chem.
- EWING, James Alfred (1899). *The steam engine and other heat engines*. Cambridge.
- FAHIE, John Joseph (1884). *A history of electric telegraphy to the year 1837*. L & NY, Spon.
- (1899). *A history of wireless telegraphy, 1838-1899*. Dodd-Mead.
- (1903). *Galileo, his life and work*. L, John Murray.
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## INDEX

**HISTORY OF SCIENCE IN GENERAL:** d'Abro, Barnes, Broad, Buckley, Chase, Crowther, Dampier, Dana, Dannemann, Draper, Enriques, Ginsburg, Gumpert, Hart, Harvey-Gibson, Hobson, Huxley, Libby, Lubbock, Mayer, Mieli, Needham & Pagel, Ostwald, Pledge, Routledge, Sarton, Sedgwick & Tyler, Singer, Sullivan, Taylor, Westaway, Whewell, White, Whitehead, Williams, Woodruff.

**ANCIENT SCIENCE:** (a) *Egypt:* Breasted. (b) *Babylonia & Assyria:* Contenau, Jastrow. (c) *Greece:* Berger, Bernhard, Bouche-Leclercq, Bury, Butcher, Croiset, Delambre, Diels, Farrington, Gom-

perz, Grote, Hall, Haverfield, Heiberg, Heller, Lenz, Livingstone, Mahaffy, Mieli, Neuburger, Osborn, Raymond, Robin, Senn, Singer, Stobart, Suter, Taylor, Thirlwall, Van Hook, Zeuthen.

**MEDIAEVAL SCIENCE:** Abelson, Allbutt, Ault, Chase, Clagett, Corner, Dark, Haskins, Hearnshaw, Hulme, Hudson, Ker, Little, Newton, Oldham, Pouchet, Rashdall, Sellery, Sichel, Steele, Symonds, Taylor, Thompson, Thorndike, Töpely, Walsh, Zeuthen.

**SIXTEENTH CENTURY SCIENCE:** Allbutt, Bryant, Dreyer, Foster, Gillespie, Morley, Roth, Smith, Taylor, Wolf.

**SEVENTEENTH CENTURY SCIENCE:** Brown, Brunet, Bryant, Clark, Curtis, Foster, Gillespie, Greenstreet, Haldane, Hewood, More, Müller, Ornstein, Payne, Power, Riesman, Sullivan, Weaver, Willis, Wolf.

**EIGHTEENTH CENTURY SCIENCE:** Brunet, Clerke, Delambre, Eckermann, Foster, Fox, Gillespie, Greenstreet, Grimaux, Hewood, Masson, Maxwell, Meldrum, Ottley, Packard, Paulsen, Thorpe, Wolf.

**NINETEENTH & TWENTIETH CENTURIES:** some 72 and 28 authors, respectively, who do not need to be listed specially.

**SPECIAL CONTRIBUTIONS:** (a) *Islam*: Arnold & Guillaume, Brown, Campbell, Hyrtl, MacKay, Rivoira, Suter. (b) *Babylonia & Assyria*: Budge, Dawson, Rawlinson, Sayce. (c) *Egypt*: Budge, Dawson, Erman, Howard-Vyse, Petrie, Smith, Smyth.

**ACADEMIES AND SCIENTIFIC SOCIETIES:** Bertrand, Birch, Brown, Ornstein.

**HISTORY OF PHILOSOPHY:** Lange, Lecky, Schwegler, Ueberweg, Weber, Westaway.

**ANCIENT PHILOSOPHY:** Burnet, Bury, Butcher, Gibbon, Comperz, Grenier, Grote, Livingstone, Windelband, Zeller.

**MEDIAEVAL PHILOSOPHY:** Ault, Campbell, Dark, Haskins, Hauréau, Ker, Sellery, Walsh, Wulf.

**MODERN PHILOSOPHY:** Höffding, Lange (materialism.)

**SCIENTIFIC METHOD; SCIENCE-AND-PHILOSOPHY:** Barnes, Broad, Brooks, Burtt, Cohen, Dalton, Dampier, Haldane, Langdon-Davies, Lange, Lecky, Mach, Marvin, Mayer, Meyerson, Osler, Pearson, Poincaré, Randall, Ritchie, Singer, Taylor, Westaway, Whewell, Whitehead, Wolf.

**HISTORY OF PSYCHOLOGY:** Baldwin, Boring, Brett, Hall, Murphy, Pillsbury, Woodworth, Zilboorg.

**HISTORY OF MATHEMATICS:** Allman, Ball, Bell, Bonola, Cajori, Cantor, Coolidge, Enriques, Fisk, Gow, Heath, Heiberg, Miller, Poincaré, Poppe, Sanford, Sarkar, Sarton, Smith, Sturm, Sullivan, Suter, Tannery, Todhunter, Tropfke, Yeldham, Zeuthen.

**HISTORY OF ASTRONOMY:** Airy, Armitage, Ball, Berry, Bryant, Clerke, Delambre, Draper & Lockwood, Dreyer, Duhem, Forbes, Grant, Hale, Holden, Jeans, Johnson, Lockyer, McAllister, MacPherson, MacPike, Pendray, Reichenbach, Repsold, Shapley & Howarth, DeSitter, Sivarama Menon, Stetson, Stevenson, Stimson, Suter, Turner, Waterfield, Williams, Wolf, Zinner.

**HISTORY OF GEOGRAPHY, CARTOGRAPHY, AND EXPLORATION:** Baker, Berger, Bunbury, Dickinson & Howarth, Gillespie, Günther, Hewood, Jacobs, Jeffreys, Keltie, Kimble, Morison, Peschel, Reeves, Ritter, Schrader, Spilhaus, Stevenson, Taylor, Tozer.

**HISTORY OF PHYSICS:** Appleyard, Buckley, Cajori, Chase, Clagett, Countryman, Crew, Dampier, Darrow, Darwin, Davy, Dunlap, Eve, Ewing, Fahie, Faraday, Gerland, Gregory, Harrow, Heiberg, Heller, Hoppe, Keferstein, Kelvin, Kistner, Lenard, Lodge, Loeb & Adams,

Macfarlane, Mach, Mallik, Martin, Maxwell, Mendenhall, O'Reilly, Picard, Planck, Poggendorff, Rosenthaler, Schuster, Seneca, Smiles, Tait, Vernon-Harcourt, Vivian, Whittaker, Zimmer.

**HISTORY OF CHEMISTRY:** Armitage, Armstrong, Arrhenius, Bauer, Berthelot, Blomstrand, Britton, Brown, Bugge, Caven, Coleby, Collins, Countryman, Cushman, Darrow, Edmunds, Einstein & Süssenguth, Findlay, Fisk, Forster, French, Gibson, Gregory, Harrow, Hilditch, Hoefer, Holmyard, Hopkins, Jaffe, Jones, Kopp, Ladenburg, Leonard, Lowry, Marsh, Masson, Meyer, Moore, Muir, Noyes, Ostwald, Partington, Philip, Ramsey, Read, Redgrave, Roberts, Robertson, Schmieder, Schorlemmer, Slosson, Smith, Stewart, Stillman, Thorpe, Tilden, Venable, Waite, White, Wiechmann.

**TECHNOLOGY, ENGINEERING, AND INVENTION:** Anderson & Spiers, Appleyard, Bridges, Cressy, Darrow, Diels, Dunlap, Ewing, Fahie, Gould, Hampton, Hatfield, Haverfield, Holland, Howard-Vyse, Iles, Kaempfert, Mendenhall, Rivoira, Smiles, Thompson, Tilden, Usher, Vernon-Harcourt, Vivian, Weaver.

**HISTORY OF GEOLOGY AND PALEONTOLOGY:** Adams, Benson, Geike, Günther, Jeffreys, Johns Hopkins, Merrill, Schuchert, Scott, Steers, Woodward, Zittel.

**GENERAL BIOLOGY, INCLUDING EVOLUTION:** Agassiz, Bertalanffy, Butler, Clay, Clodd, Cole, Curtis, Davies, Darwin, Dewar, Driesch, Foster, Günther, Hertwig, Judd, Keith, Klein, Lamarck, Locy, Lotsy, MacBride, May, Miall, Newman, Nordenskiöld, Osborn, Poulton, Rädl, Romanes, Seward, Singer, Taylor, Thomson, Wiegand, Wilson.

**BOTANY:** Arber, Bernhard, Bower, Budge, Bulloch, Buschan, DeKruif, Dible, Fries, Green, Greene, Harvey-Gibson, Klebs, Lenz, Meyer, Moebius, Oliver, Paget, Reed, Sachs.

**ZOOLOGY:** Brooks, Burckhardt, Carus, Cole, Geoffroy St.-Hilaire, Graff, Haddon, Lankester, Lenz, Meyer, Perrier, Schmidt, Spix, Wiegand.

**MEDICAL SCIENCES:** Adelmann, Allbutt, André-Pointier, Baas, Berendes, Bligh, Brown, Buck, Campbell, Castiglioni, Collie, Contenau, Corner, Dalton, Darenberg, Davis, Dawson, DeKruif, Dible, Flores, Foster, Fox, Fulton, Galdston, Garrison, Gorton, Günther, Haeser, Haggard, Hemmeter, Hunter, Hyrtl, Jayne, Kelly, Kelly & Burrage, Lamm, LaWall, Macfie, Malcolm, Medici, Moon, Moynihan, Needham, Neuburger, Neuburger & Pagel, Newman, Newsholme, Osler, Pagel, Power, Puschmann, Richter, Robinson, Roddis, Rohlfs, Schelenz, Sigerist, Singer, Stirling, Sudhoff, Taylor, Thacher, Töpely, Welsh, Williams.

**ANATOMY:** Cole, Corner, Hunter, Hyrtl, Schmidt.

**PHYSIOLOGY:** Foster, Fulton, Olmsted, Robinson, Stirling.

**HYGIENE AND PUBLIC HEALTH:** Bligh, Newman, Newsholme.

**PHARMACY AND MATERIA MEDICA:** André-Pointier, Berendes, Wootton, Schelenz, LeWall.

**BIOGRAPHY** (General works or compendia on men of science) : Arago, Ball, Bell, Brewster, Crowther, Dannemann, Darrow, Duncan, Jaffe, Kelly, Kelly & Burrage, Lee, Lenard, Thacher, Thomson, Williams.

**BIOGRAPHY** (individuals) : *Agassiz* (*Agassiz, Marcou*), *Airy* (*Airy*), *Aristarchus* (*Heath*), *Aristotle* (*Grant, Lewes, Meyer, Ross, Thompson*), *Roger Bacon* (*Little, Steele*), *Bernard* (*Foster, Olmsted*), *Berzelius* (*Berzelius*), *Boyle* (*Birch*), *Brahe* (*Dreyer*), *Bruno* (*Boultting*), *Buffon* (*Roule*), *Cardan* (*Morley*), *Cavendish* (*Aykroyd, Maxwell*), *Chamberlin* (*Collie & Densmore*), *Copernicus* (*Prowe, Stahl*), *Crookes* (*Fournier d'Albe*), *Curie* (*Curie*), *Cuvier* (*Wiegand*), *Dalton* (*Henry, Neville-Polley*), *Darwin* (*Baldwin, Bradford, Darwin*),

Dorsey, May, Poulton, Ward, West, Wiegand), *Davy* (Davy, Gregory, Paris, Thorpe), *Descartes* (Haldane), *Einstein* (Reiser, Moszkowski), *Faraday* (Crowther, Faraday, Gladstone, Jones, Randell, Thompson, Tyndall), *Franklin* (Cohen, Van Doren), *Galileo* (Bryant, Fahie), *Gerhardt* (Grimaux), *Gibbs* (Rukeyser), *Goethe* (Eckermann, May, Wasielewsky), *Asa Gray* (Gray), *Haeckel* (Boelsche, May), *Herschel* (Clerke), *Hertz* (Lodge), *J. D. Hooker* (Bower, Huxley), *A. von Humboldt* (May), *Hume* (Huxley, Knight), *John Hunter* (Ottley), *T. H. Huxley* (Clodd, Huxley), *Kant* (Paulsen), *Kelvin* (Gray, Murray, Thompson), *Kepler* (Bryant, Hist. Sci. Soc., Müller), *Lamarck* (Packard, Roule), *Lavoisier* (Aykroyd, Cochrane, McKie, Grimaux), *Leeuwenhoek* (Dobell), *Liebig* (Berzelius, Shenstone), *Linnaeus* (Fries, Jackson), *Lister* (Duke, Godlee, Wrench), *Macquer* (Coleby), *Marsh* (Schuchert), *Maxwell* (Campbell & Garnett, Glazebrook), *Mendel* (Iltis), *Mayer* (Hell), *Newton* (Brewster, Brodetsky, Brunet, DeMorgan, Greenstreet, Hist. Sci. Soc., More, Smith, Snow, Sullivan, Wiegand), *Richard Owen* (Owen), *Pasteur* (Descour, Frankland, Paget, Vallery-Radot), *Pavlov* (Frolov), *Poincaré* (d'Adhemar), *Priestley* (Aykroyd, Thorpe), *Salisbury* (Collie & Densmore), *Scott* (Scott), *Semmelweis* (Celine, Sinclair), *H. Spencer* (Bourne, Thomson), *Steller* (Stejneger), *Swedenborg* (Lamm), *Sydenham* (Payne, Riesman), *Thomson* (Thomson), *Vesalius* (Roth), *Wallace* (Hogben, Wallace), *Welch* (Flexner), *Whewell* (Todhunter), *Woehler* (Berzelius), *C. Wren* (Weaver).

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