

Bibliography

150 Years in the Stacks. *Year 13 – 1873: A Treatise on Electricity and Magnetism by James Clerk*

Maxwell. n.d. <http://libraries.mit.edu/150books/2011/01/19/1873/> (accessed August 30th, 2016).

Aaserud, Finn. 2020. "Niels Bohr | Biography, Education, Accomplishments, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Niels-Bohr>.

Acott, Chris J. "The diving 'Law-ers': A brief resume of their lives." *South Pacific Underwater Medicine Society Journal* 29, no. 1 (1999): 39-42.

Allen, G. Donald. *Calculus*. April 10, 1997. <http://www.math.tamu.edu/~dallen/history/calc1/calc1.html> (accessed September 14, 2016).

Armitage, Angus. *The World of Copernicus*. Wrappingers Falls: Beekman Books, Inc., 1951.

Ball, W.W. Rouse. *The Bernoullis*. n.d. http://www.maths.tcd.ie/pub/HistMath/People/Bernoullis/RouseBall/RB_Bernoullis.html (accessed September 14, 2016).

Bohr, Niels. "The Mechanism of Nuclear Fission." *Physical Review* 56, no. 5 (1939): 426-50.

Bowden, Mary Ellen, Amy Beth Crow, and Tracy Sullivan. *Pharmaceutical Achievers: The Human Face of Pharmaceutical Research*. Philadelphia: Chemical Heritage Press, 2003.

Boyer, Carl Benjamin. *The Rainbow, from Myth to Mathematics*. Princeton: Princeton University Press, 1959.

Boylan, Michael. *Hippocrates*. 2006. <http://www.iep.utm.edu/hippocra/> (accessed August 2016, 2016).

Calisher. "Taxonomy: What's in a name? Doesn't a rose by any other name smell as sweet?" *Croatian Medical Journal* 48, no. 2 (2007): 268-270.

Capra, Fritjof. *The Science of Leonardo: Inside The Mind of The Genius of The Renaissance*. New York: Doubleday, 2007.

Carroll, Bradley W. *Archimedes' Principle*. Weber State University Department of Physics. n.d. <http://www.physics.weber.edu/carroll/Archimedes/principle.htm> (accessed August 11, 2016).

Chapman, Prof. S. "Tencentenary of the Calculating Machine." *Nature* 150, no. 3806 (1942): 472.

"Christian Doppler | Austrian Physicist". 2020. *Encyclopedia Britannica*. <https://www.britannica.com/biography/Christian-Doppler>.

CNN. "CNN: Obama Goes on 'Mythbusters'." *Youtube*. CNN. October 18, 2010. <https://www.youtube.com/watch?v=zMfI5iLTIDk> (accessed August 11, 2016).

Conot, Robert E. 2020. "Thomas Edison | Biography, Early Life, Inventions, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Thomas-Edison>.

Crick, FH, L Barnett, S Brenner, and RJ Watts-Tobin. "General nature of the genetic code for proteins." *Nature* 192 (1961): 1227-32.

"Daniel Bernoulli | Swiss Mathematician". 2020. *Encyclopedia Britannica*. <https://www.britannica.com/biography/Daniel-Bernoulli>.

Dardo, Mauro. *Nobel Laureates and Twentieth-Century Physics*. Cambridge: Cambridge University Press, 2004.

Darrigol, Olivier. *A History of Optics from Greek Antiquity to the Nineteenth Century*. Oxford: OUP Oxford, 2012.

Darwin, Charles. "The Voyage of The Beagle." *Project Gutenberg*. September 12, 2003.

<http://www.gutenberg.org/cache/epub/944/pg944-images.html> (accessed August 29, 2016).

de Santillana, Giorgio, and Hertha von Dechend. *Hamlet's Mill*. Boston: David R. Godine, Publisher, 1977.

Desmond, Adrian J. 2020. "Charles Darwin | Biography & Facts". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Charles-Darwin>.

Devlin, Keith J. *The Unfinished Game: Pascal, Fermat, and the Seventeenth-Century Letter That Made the World Modern*. New York: Basic Books, 2010.

Domb, Cyril. 2020. "James Clerk Maxwell | Biography & Facts". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/James-Clerk-Maxwell>.

Duke, Dennis. *Ptolemy's Cosmology*. n.d. <https://people.sc.fsu.edu/~dduke/nptolemy.html> (accessed August 15, 2016).

Eden, Alec. "The man behind the technique: In the steps of Christian Doppler." *Journal of the History of Neurosciences* 3, no. 1 (1994): 35-43.

—. *The Search for Christian Doppler*. New York: Springer Science & Business Media, 2012.

Einstein, Albert. "Einstein at the Ex." In *The Fermi Solution: Essays on Science*, by Hans Christian Von Baeyer, 74-80. North Chelmsford: Courier Corporation, 1993.

Encyclopedia Britannica. *Constellation*. April 13, 2016. <https://www.britannica.com/topic/constellation> (accessed August 15, 2016).

Encyclopedia Britannica. *Joseph Bramah*. n.d. <https://www.britannica.com/biography/Joseph-Bramah> (accessed August 18, 2016).

—. *Ludwig Eduard Boltzmann*. n.d. <https://www.britannica.com/biography/Ludwig-Eduard-Boltzmann> (accessed September 12, 2016).

Encyclopedia of World Biography. *Marie Curie Biography*. n.d. <http://www.notablebiographies.com/Co-Da/Curie-Marie.html> (accessed August 31, 2016).

"Ernst Mach | Biography & Facts". 2020. *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Ernst-Mach>.

Evans, James. *The History and Practice of Ancient Astronomy*. Oxford: Oxford University Press, 1998.

Faraday, Michael. *Experimental Researches in Chemistry and Physics*. London: Richard Taylor and William Francis, 1859.

Garrison, Fielding H. *An Introduction to the History of Medicine*. Philadelphia and London: W. B. Saunders Company, 1917.

Gibbs, Josiah Willard. *Elementary Principles in Statistical Mechanics*. New York: Charles Scribner's Sons, 1902.

Gingerich, O. "Did Copernicus Owe a Debt to Aristarchus?" *Journal for the History of Astronomy* 16, no. 1 (1985): 37.

Hannam, James. *The Genesis of Science: How the Christian Middle Ages Launched the Scientific Revolution*. Washington, DC: Regnery Publishing, 2011.

Harman, P.M. "Maxwell, James Clerk." In *Oxford Dictionary of National Biography*. Oxford: Oxford University Press, 2004.

Harmon, Katherine. "How Has Stephen Hawking Lived Past 70 with ALS?" *Scientific American*, January 7, 2012.

Harvard Natural Sciences Lecture Demonstrations. *Galileo's Chandelier*. n.d.

<http://sciencedemonstrations.fas.harvard.edu/presentations/galileos-chandelier> (accessed August 17, 2016).

hawking.org. *Brief Biography*. n.d. <http://www.hawking.org.uk/about-stephen.html> (accessed September 12, 2016).

Hawkings, J.E., and J. Schadt. "Sketches of otohistory part 8: The emergence of vestibular science." *Audiology & Neurotology* 10, no. 4 (2005): 185-190.

- Heydenreich, Ludwig. 2020. "Leonardo Da Vinci | Biography, Paintings, Drawings, Inventions, Achievements, & Facts". *Encyclopedia Britannica*.
<https://www.britannica.com/biography/Leonardo-da-Vinci>.
- Hubble, Edwin. "A relation between distance and radial velocity among extra-galactic nebulae." *Proceedings of the National Academy of Science* 15, no. 3 (1929): 168-173.
- Hubble, Edwin. "Extragalactic nebulae." *Astrophysical journal* 64 (1926): 321-369.
- Hyperphysics. *Bernoulli Equation*. n.d. <http://hyperphysics.phy-astr.gsu.edu/hbase/pber.html> (accessed August 23, 2016).
- . *Ideal Gas Law*. n.d. <http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/idegas.html#c2> (accessed September 12, 2016).
- . *Kepler's Laws*. n.d. <http://hyperphysics.phy-astr.gsu.edu/hbase/kepler.html> (accessed August 18, 2016).
- . *van der Waals Equation of State*. n.d. <http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/waal.html> (accessed August 23, 2016).
- The Institution of Engineering and Technology. *Archives Biographies: Michael Faraday*. The Institution of Engineering and Technology. n.d.
<http://www.theiet.org/resources/library/archives/biographies/faraday.cfm#top> (accessed August 25, 2016).
- Israel, Paul. *Edison's Laboratory*. n.d. <http://www.gilderlehrman.org/history-by-era/gilded-age/essays/edison%E2%80%99s-laboratory> (accessed August 30, 2016).
- James, Frank A.J.L. *Michael Faraday*. n.d. <http://www.chemistryexplained.com/Di-Fa/Faraday-Michael.html> (accessed August 24, 2016).
- "James Watson | Biography, Nobel Prize, Discovery, & Facts". 2020. *Encyclopedia Britannica*.
<https://www.britannica.com/biography/James-Dewey-Watson>.

Johnson, Kevin. *Colour Vision*. May 2002. http://www-history.mcs.st-and.ac.uk/Projects/Johnson/Chapters/Ch4_2.html (accessed August 30, 2016).

Jones, Alexander. 2020. "Hipparchus | Biography, Discoveries, Accomplishments, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Hipparchus-Greek-astronomer>.

Jones, Alexander. 2020. "Ptolemy | Accomplishments, Biography, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Ptolemy>.

Jonnes, Jill. *Empires of Light: Edison, Tesla, Westinghouse, And The Race To Electrify The World*. New York: Random House, 2004.

"Joseph Jackson Lister | British Opticist". 2020. *Encyclopedia Britannica*. <https://www.britannica.com/biography/Joseph-Jackson-Lister>.

Kaku, Michio. 2020. "Albert Einstein | Biography, Education, Discoveries, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Albert-Einstein>.

Klintberg, Bo. "Hipparchus' 3600' Chord Table and Its Place In The History of Ancient Greek and Indian Trigonometry." *Indian Journal of History of Science* 40, no. 2 (2005): 169-203.

Kragh, Helge. "Max Planck: the reluctant revolutionary." *Physics World*, December 2000: 31-35.

Laurance, Jeremy. "Mind over matter: How Stephen Hawking defied Motor Neurone Disease for 50 years." *The Independent*, January 6, 2012.

Lawrence Berkely National Lab. *The Discovery of Radioactivity*. August 9, 2000. <http://www2.lbl.gov/abc/wallchart/chapters/03/4.html> (accessed September 14, 2016).

Leavitt, Sarah A. *Gregor Mendel: The Father of Modern Genetics*. June 2010. https://history.nih.gov/exhibits/nirenberg/HS1_mendel.htm (accessed August 29, 2016).

The Leonardo Bridge Project. *The Leonardo Bridge Project*. n.d. <http://www.leonardobridgeproject.org/index.htm> (accessed August 16, 2016).

Levine, Ira N. *Physical Chemistry*. New York: McGraw-Hill, 1978.

Ligon, B. Lee. "Biography: Louis Pasteur: A controversial figure in a debate on scientific ethics." *Seminars in Pediatric Infectious Diseases* 13, no. 2 (April 2002): 134-141.

Lister, Baron Joseph. "The Classic: On the Antiseptic Principle in the Practice of Surgery." *Clinical Orthopaedics and Related Research* 468, no. 8 (2010): 246.

"Ludwig Boltzmann | Austrian Physicist". 2020. *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Ludwig-Boltzmann>.

Mabee, Carleton. 2020. "Samuel F.B. Morse | Telegraph, Biography, & Facts". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Samuel-F-B-Morse>.

Major, F.G. *The Quantum Beat: Principles and Applications of Atomic Clocks*. New York: Springer Science and Business Media, 2007.

"Marie Curie | Biography & Facts". 2020. *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Marie-Curie>.

Merriam-Webster . *anthropic principle*. n.d. [http://www.merriam-](http://www.merriam-webster.com/dictionary/anthropic%20principle)

[webster.com/dictionary/anthropic%20principle](http://www.merriam-webster.com/dictionary/anthropic%20principle) (accessed September 12, 2016).

Moran, Michael E. "The da Vinci Robot." *The Journal of Endourology* 20, no. 12 (January 2007): 986-990.

Morgan, GJ. "Historical review: viruses, crystals, and geodesic domes." *Trends in Biochemical Sciences*, 2003: 86-90.

Müller-Wille, Steffan. 2020. "Carolus Linnaeus | Biography, Education, Classification System, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Carolus-Linnaeus>.

Nahin, P.J. "Maxwell's grand unification." *IEEE Spectrum* 29, no. 3 (1992): 45.

The National Institute of Standards and Technology. *The NIST Reference on Constants, Units, and Uncertainty*. n.d. http://physics.nist.gov/cgi-bin/cuu/Results?search_for=planck (accessed September 14, 2016).

Nelson, Bryn. *The Lingering Heat over Pasteurized Milk*. 2009.

<https://www.chemheritage.org/distillations/article/lingering-heat-over-pasteurized-milk>
(accessed August 29, 2016).

Newton, Sir Isaac. *The Mathematical Principles of Natural Philosophy*. Translated by Andrew Motte. Vol. 1. 2 vols. London: Benjamin Motte, 1729.

Nobel Committee. *The Nobel Prize in Chemistry 1911*. 2014.

http://www.nobelprize.org/nobel_prizes/chemistry/laureates/1911/index.html (accessed September 14, 2016).

—. *The Nobel Prize in Physics 1903*. 2014.

http://www.nobelprize.org/nobel_prizes/physics/laureates/1903/ (accessed September 14, 2016).

NPR Staff. "Da Vinci's String Organ Must Be Heard To Be Believed." *npr.org*. December 1, 2013.

<http://www.npr.org/sections/deceptivecadence/2013/12/01/247543086/da-vinci-s-string-organ-must-be-heard-to-be-believed> (accessed August 16, 2016).

O'Connor, J.J., and E.F. Robertson. *A history of the calculus*. School of Mathematics and Statistics, University of St. Andrews, Scotland. February 1996. http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/The_rise_of_calculus.html (accessed August 11, 2016).

Olby, Robert. 2020. "Gregor Mendel | Biography, Experiments, & Facts". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Gregor-Mendel>.

Orcibal, Jean. 2020. "Blaise Pascal | Biography, Facts, & Inventions". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Blaise-Pascal>.

Osler, Margaret. *Reconfiguring the World*. Baltimore: The Johns Hopkins University Press, 2010.

Pasachoff, Naomi. *Marie Curie and the Science of Radioactivity*. n.d.

<https://www.aip.org/history/exhibits/curie/war1.htm> (accessed August 31, 2016).

Planck's Constant and The Origin of Quantum Mechanics | Space Time | PBS Digital Studios. Youtube.

Directed by Matt O'Dowd. Produced by PBS Space Time. Performed by Matt O'Dowd. 2016.

Popkin, Richard H. *The Columbia History of Western Philosophy*. New York: Columbia University Press, 2005.

Principe, Lawrence. 2020. "Robert Boyle | Biography, Contributions, Works, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Robert-Boyle>.

Pringle, James S, and James L Reveal. *Flora of North America*. Vol. 1. New York and Oxford: Oxford University Press, 1993.

Qualitative Reasoning Group of Northwestern University. *What is the Doppler effect?* n.d.

<http://www.qrg.northwestern.edu/projects/vss/docs/communications/3-what-is-the-doppler-effect.html> (accessed September 16, 2016).

Rollyson, Carl. *Marie Curie: Honesty in Science*. Bloomington: iUniverse, 2004.

Rose, Charlie. *Guests: Stephen Hawking, RSS*. March 29, 2013.

<http://web.archive.org/web/20130329060031/http://www.charlierose.com/guest/view/6294> (accessed September 15, 2016).

Schleiden, M.J. *The Mathematics of Inheritance*. 1849.

<https://web.archive.org/web/20130131134854/http://www.mendel-museum.com/eng/1online/room2.htm> (accessed August 29, 2016).

Scott, Jeff. *Ernst Mach and Mach Number*. November 9, 2003.

<http://www.aerospaceweb.org/question/history/q0149.shtml> (accessed September 16, 2016).

Smith, Robert. 2020. "Edwin Hubble | Biography, Discoveries, & Facts". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Edwin-Hubble>.

Sooke, Alistair. "Leonardo da Vinci: Anatomy of an Artist." *The Telegraph*, June 8, 2013.

Stachel, John. *Einstein from 'B' to 'Z'*. New York: Springer Science & Business Media, 2001.

"Stephen Hawking | Facts, Biography, Books, & Theories". 2020. *Encyclopedia Britannica*

<https://www.britannica.com/biography/Stephen-Hawking>.

Stephenson, Bruce. *Kepler's Physical Astronomy*. Princeton: Princeton University Press, 1994.

Stuewer, Roger H. 2020. "Max Planck | Biography, Discoveries, & Quantum Theory". *Encyclopedia*

Britannica. <https://www.britannica.com/biography/Max-Planck>.

Stover, John F. *History of the Baltimore and Ohio Railroad*. West Lafayette: Purdue University Press,

1995.

Sulloway, Frank J. "Darwin and his finches: the evolution of a legend." *Journal of the History of Biology*

15, no. 1 (1982): 1-53.

Thomson, Thales, Rutherford Bohr Sommerfeld, Goudsmit Heisenberg Schrödinger, and Dirac Sallhofer.

"Models and Modelers of Hydrogen." *American Journal of Physics* 65, no. 9 (1996): 933.

Toomer, Gerald. 2020. "Archimedes | Facts & Biography". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Archimedes>.

Ullmann, Agnes. 2020. "Louis Pasteur | Biography, Inventions, Achievements, & Facts". *Encyclopedia*

Britannica. <https://www.britannica.com/biography/Louis-Pasteur>.

Van Helden, Albert. 2020. "Galileo | Biography, Discoveries, & Facts". *Encyclopedia Britannica*.

<https://www.britannica.com/biography/Galileo-Galilei>.

Violatti, Cristian. *Hipparchus of Nicaea*. Ancient History Encyclopedia. April 2, 2013.

http://www.ancient.eu/Hipparchus_of_Nicea/ (accessed August 15, 2016).

Watson, J.D., and F.H. Crick. "Molecular Structure of Nucleic Acids." *Nature*, 1953: 737-38.

Watson, James, interview by Ira Flatow. *Dna* NPR. May 2, 2003.

Westfall, Richard S. *Never at Rest: A Biography of Sir Isaac Newton*. Cambridge: Cambridge University

Press, 1983.

- Westfall, Richard. 2020. "Isaac Newton | Biography, Facts, Discoveries, Laws, & Inventions". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Isaac-Newton>.
- Westman, Robert. 2020. "Johannes Kepler | Biography, Discoveries, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Johannes-Kepler>.
- Westman, Robert. 2020. "Nicolaus Copernicus | Facts, Accomplishments, & Theory". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Nicolaus-Copernicus>.
- White, Michael. *Isaac Newton: The Last Sorcerer*. Boston: Da Capo Press, 1999.
- Whitehouse, David. *Renaissance Genius: Galileo Galilei & His Legacy to Modern Science*. New York: Sterling Publishing, 2009.
- Williams, L. Pearce. 2020. "Michael Faraday | Biography, Inventions, & Facts". *Encyclopedia Britannica*. <https://www.britannica.com/biography/Michael-Faraday>.
- Woodford, Chris. *Airplanes*. May 9, 2016. <http://www.explainthatstuff.com/howplaneswork.html> (accessed August 23rd, 2016).
- Yapijakis, Christos. "Hippocrates of Kos, the father of clinical medicine, and Asclepiades of Bithynia, the father of molecular medicine. Review." *In Vivo* 23, no. 4 (Jul-Aug 2009): 507-14.