

References

- Abel, J. J., 1930, The education of the superior student, *J. Chemical Education*, 7, pp. 283-293.
- Abelard, P., 1122, *Sic et Non*, extracts in: J. H. Robinson (transl.), 1904, *Readings in European History*, Ginn & Co.: Boston, pp. 450-451.
- Achinstein, P., 1985, The method of hypothesis: What is it supposed to do, and can it do it? In P. Achinstein and O. Hannaway (Eds.), *Observation, Experiment and Hypothesis in Modern Physical Science*, M.I.T. Press: Cambridge, MA, pp. 127-145.
- Ackerman, D., 1990, *A Natural History of the Senses*, Vintage Books: New York.
- Alhazen, ~1000 A.D., *The Optics of Ibn Al-Haytham*, 1989, Warburg Institute, Univ. of London: London.
- Angier, N., 1992, The codebreakers, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 169-174.
- Archimedes, ~287-212 B.C., In T. L. Heath (transl.), 1952, *The Works of Archimedes Including the Method*, Encyclopedia Britannica: Chicago.
- Aristotle, 384-322 B.C., *Metaphysica*, In W. D. Ross (Ed.), 1908-1952, *The Works of Aristotle (12 vols.)*, Clarendon Press: Oxford.
- Arnaudin, M. W., J. J. Mintzes, C. S. Dunn, and T. H. Shafer, 1984, Concept mapping in college science teaching, *Journal of College Science Teaching*, 14, pp. 117-121.
- Arnauld, A., 1662, *Logic, or, The Art of Thinking ("The Port-Royal Logic")*, J. Dickoff and P. James (transl.), 1964, Bobbs-Merrill: Indianapolis.
- Augustine, St., 354-430, a, In H. Paolucci (Ed.), J. F. Shaw (transl.), 1961, *The Enchiridion on Faith, Hope, and Love*, Regnery Gateway: Chicago.
- Augustine, St., 354-430, b, cited by: R. Chambliss, 1954, *Social Thought from Hammurabi to Comte*, Henry Holt & Co.: New York.
- Ausubel, D. P., J. D. Novak, and H. Hanesian, 1978, *Educational Psychology: A Cognitive View*, Holt, Rinehart, & Winston: New York.
- Axelrod, R., and W. D. Hamilton, 1981, The evolution of cooperation, *Science*, 211, pp. 1390-1396.
- Bacon, F., 1561-1626, *Advancement in Learning*, In 1952, *Great Books of the Western World*, v. 30, Encyclopedia Britannica, Inc.: Chicago.
- Bacon, F., 1620, *Novum Organum*, R. Ellis and J. Spedding (transl.), 1900?, George Routledge & Sons, Ltd., London.
- Bacon, R., ~1270, In T. L. Davis (transl.), 1923, *Roger Bacon's Letter Concerning the Marvelous Power of Art and of Nature and Concerning the Nullity of Magic*, Chemical Publ. Co.: Easton, PA.
- Bailey, N. T. J., 1967, *The Mathematical Approach to Biology and Medicine*, Wiley: New York.
- Baker, A., 1970, *Modern Physics and Antiphysics*, Addison-Wesley: Reading, MA.
- Bauer, H. H., 1994, *Scientific Literacy and the Myth of the Scientific Method*, Univ. of Illinois Press: Urbana, IL.
- Bernard of Chartres, ~1150, cited by: E. R. Fairweather, 1956, *A Scholastic Miscellany: Anselm to Ockham*, Westminster Press: Philadelphia.

- Bernard, C., 1865, *An Introduction to the Study of Experimental Medicine*, H. C. Green (transl.), 1925, Dover Publ.: New York.
- Bernstein, J., 1982, *Science Observed; Essays Out of My Mind*, Basic Books: New York.
- Beveridge, W. I. B., 1955, *The Art of Scientific Investigation*, Vintage Books: New York.
- Blackett, P. M. S., 1962, Memories of Rutherford. In J. B. Birks (Ed.), *Rutherford at Manchester*, Heywood & Co.: London, pp. 102-113.
- Blake, W., ~1803, *Auguries of Innocence*, In A. Ostriker (Ed.), 1977, *William Blake, The Complete Poems*, Penguin Books: Harmondsworth, UK.
- Blatty, W. P., 1972, *The Exorcist*, Bantam Books: Toronto.
- Blauner, R., 1960, Work satisfaction and industrial trends in modern society, In W. Galenson and S. M. Lipset (Eds.), *Labor and Trade Unionism: an Interdisciplinary Reader*, John Wiley and Sons: New York, pp. 339-360.
- Biondi, A. M., 1980, About the small cage habit, *J. Creative Behavior*, 14, pp. 75-76.
- Boghosian, B. M., 1990, Computational physics on the connection machine, *Computers in Physics*, 4(1), pp. 14-32.
- Bonnichsen, R., and A. L. Schneider, 1995, Ancient hair, and the DNA embedded in it, might reveal when and how the Americas were settled – but not if some Native Americans can help it, *The Sciences*, May/June, pp. 27-31.
- Boyd, R. N., 1985, Observations, explanatory power, and simplicity: Toward a non-Humean account, In P. Achinstein and O. Hannaway (Eds.), *Observation, Experiment and Hypothesis in Modern Physical Science*, M.I.T. Press: Cambridge, pp. 47-94.
- Brehaut, E., 1912, *An Encyclopedist of the Dark Ages: Isidore of Seville*, Columbia Univ. Press: New York.
- Bronowski, J., 1973, *The Ascent of Man*, Little, Brown & Co.: Boston.
- Brown, W. L., Jr., 1987, Punctuated equilibrium excused: the original examples fail to support it, *Biol. J. of the Linnean Society*, 31, pp. 383-404.
- Browne, M. W., 1992, A star is dying, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 46-49.
- Bruner, J. S., and L. Postman, 1949, On the perception of incongruity: a paradigm, *J. Personality*, 18, pp. 206-223.
- Buck, P. S., 1962, *A Bridge for Passing*, John Day Co.: New York.
- Burns, E. M., 1963, *Western Civilizations, Their History and Their Culture (6th ed.)*, W. W. Norton: New York.
- Bush, V., 1945, *Science -- the Endless Frontier*, report to the President.
- Calvin, W. H., 1986, *The River That Flows Uphill*, Sierra Club Books: San Francisco.
- Campbell, J., with B. Moyers, 1988a, *Joseph Campbell and The Power of Myth* (videorecording), Mystic Fire Video: New York.
- Campbell, J., with B. Moyers, 1988b, *The Power of Myth*, Doubleday: New York.
- Cannon, W. B., 1945, *The Way of an Investigator*, W. W. Norton: New York.
- Carlyle, T., 1795-1881, cited by: A. L. Mackay, 1991, *A Dictionary of Scientific Quotations*, Inst. of Physics Publ.: Bristol, UK.

- Carnap, R., 1966, *Philosophical Foundations of Physics; An Introduction to the Philosophy of Science*, Basic Books, Inc.: New York.
- Chambliss, R., 1954, *Social Thought from Hammurabi to Comte*, Henry Holt & Co.: New York.
- Cheng, P., and K. Holyoak, 1985, Pragmatic reasoning schemas, *Cognitive Psychology*, 17, pp. 391-416.
- Clausewitz, C. von, 1830, *On War (Vol. 3)*, J. J. Graham (transl.), 1956, Routledge & Kegan Paul Ltd.: London.
- Cohen, L. R., and R. G. Noll, 1994, Privatizing public research, *Sci. American*, 271(3), pp. 72-77.
- Coleridge, S. T., 1798, The Rime of the Ancient Mariner, In C. M. Coffin (Ed.), 1954, *The Major Poets: English and American*, Harcourt, Brace & World: New York, pp. 274-292.
- Committee on the Conduct of Science, National Academy of Sciences, 1989, *On Being a Scientist*, National Academy Press: Washington, DC.
- Conant, J. B., 1947, *On Understanding Science; An Historical Approach*, Yale Univ. Press: New Haven.
- COSEPUP (Committee on Science, Engineering, and Public Policy), 1993, *Science, Technology, and the Federal Government: National Goals for a New Era*, National Academy Press: Washington, DC.
- Cowell, A., 1992, The threat of the new, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 241-244.
- Crombie, A. C., 1953, *Robert Grosseteste and the Origins of Experimental Science, 1100-1700*, Clarendon Press: Oxford.
- Cunningham, J., 1988, Techniques of pyramid-building in Egypt, *Nature*, 332(6159), pp. 22-23.
- Curie, E., 1937, *Madame Curie*, Doubleday, Doran & Co., Inc.: Garden City, NY.
- Dante Alighieri, 1313-1321, In C. E. Norton (transl.), 1941, *The Divine Comedy of Dante Alighieri*, Houghton Mifflin Co.: Boston.
- Darwin, C., 1876, *Autobiography*, In F. Darwin (Ed.), 1897, *The Life and Letters of Charles Darwin, Vol. I*, D. Appleton & Co.: New York.
- Davy, H., 1840, *The Collected Works of Sir Humphrey Davy*, J. Davy (Ed.), Smith, Elder & Co.: London.
- Derry, G. N., 1999, *What Science is and How it Works*, Princeton Univ. Press: Princeton, NJ.
- Descartes, R., 1629, *Rules for the Direction of the Mind*, E. S. Haldane and G. R. T. Ross (transl.), 1952, Encyclopedia Britannica: Chicago.
- Descartes, R., 1637, *Discourse on Method, and Meditations*, L. J. Lafleur (transl.), 1960, Liberal Arts Press: New York.
- Diaconis, P., and F. Mostelle, 1989, Methods for studying coincidences, *J. Am. Stat. Assoc.*, 84, pp. 853-861.
- Dillard, A., 1974, *Pilgrim at Tinker Creek*, Harper's Magazine Press: New York.
- Dixon, W. J., and F. J. Massey Jr., 1969, *Introduction to Statistical Analysis (3rd ed.)*, McGraw-Hill: New York.
- Doyle, A. C., 1893a, *Memoirs of Sherlock Holmes*, A. L. Burt: New York.
- Doyle, A. C., 1893b, *A Study in Scarlet*, Ward, Locke & Bowden: New York.

- Doyle, A. C., 1917, *His Last Bow: Some Reminiscences of Sherlock Holmes*, Penguin: Harmondsworth, UK.
- Einstein, A., 1879-1955, cited by: B. Hoffmann, 1972, *Albert Einstein, Creator and Rebel*, Viking Press: New York.
- Einstein, A., 1954, Correspondence to the editor, *The Reporter*, 11(9), p. 8.
- Eiseley, L., 1978, *The Star Thrower*, New York Times Books Co.: New York.
- Eldredge, N., and S. J. Gould, 1972, Punctuated equilibria: an alternative to phyletic gradualism, In T. J. M. Schopf (Ed.), *Models in Paleobiology*, Freeman, Cooper: San Francisco.
- Emerson, R. W., 1840, In A. W. Plumstead and H. Hayford (Eds.), 1960, *The Journals and Miscellaneous Notebooks of Ralph Waldo Emerson*, v. 7, Belknap Press: Cambridge, MA.
- Empedocles, 5th century B.C., *The Poem of Empedocles*, B. Inwood (transl.), 1992, Univ. of Toronto Press: Toronto.
- Ennis, R., 1969, *Logic in Teaching*, Prentice-Hall, Inc.: Englewood Cliffs, NJ.
- Executive Office of the President, Office of Science and Technology Policy, 1994, *Science in the National Interest*, U.S. Govt. Printing Office: Washington, DC.
- Fairweather, E. R., 1956, *A Scholastic Miscellany: Anselm to Ockham*, Westminster Press: Philadelphia.
- Feynman, R. P., 1985, *Surely You're Joking, Mr. Feynman! Adventures of a Curious Character*, Bantam Books: Toronto.
- Feynman, R. P., 1988, *What Do You Care What Other People Think? Further Adventures of a Curious Character*, W. W. Norton & Co.: New York.
- Fisher, R. A., and F. Yates, 1963, *Statistical Tables for Biological, Agricultural and Medical Research (6th ed.)*, Hafner Publ. Co.: New York.
- Fowler, W. S., 1962, *The Development of Scientific Method*, Pergamon Press: Oxford.
- Franklin, B., 1706-1790, cited by: A. L. Mackay, 1991, *A Dictionary of Scientific Quotations*, Inst. of Physics Publ.: Bristol, UK.
- Freedman, P., 1950, *The Principles of Scientific Research*, Public Affairs Press: Washington, D.C.
- Gaither, C. C., and A. E. Cavazos-Gaither, 2000, *Scientifically Speaking: A Dictionary of Quotations*, Institute of Physics Publishing: Bristol.
- Galileo Galilei, 1564-1642, In Redondi, P., 1987, *Galileo: Heretic*, Princeton Univ. Press: Princeton NJ.
- Galison, P., 1985, Bubble chambers and the experimental workplace, In P. Achinstein & O. Hanaway (Eds.), *Observation, Experiment and Hypothesis in Modern Physical Science*, M.I.T. Press: Cambridge, MA, pp. 309-373.
- Gerard, R. H., 1946, The biological basis of imagination, *Sci. Monthly*, 62, pp. 477-499.
- Gibbon, E., 1787, *The Decline and Fall of the Roman Empire*, W. Whitman (Ed.), 1943, Wise: New York.
- Giere, R. N., 1983, Testing theoretical hypotheses, In J. Earman (Ed.), *Testing Scientific Theories, Minnesota Studies in the Philosophy of Science*, 10, pp. 269-298.
- Gilbert, G. K., 1886, The inculcation of scientific method by example, with an illustration drawn from the Quaternary geology of Utah, *American J. Science (3rd series)*, 31, pp. 284-289.

- Gleick, J., 1987, *Chaos; Making a New Science*, Penguin Books: New York.
- Gleick, J., 1992a, Why is the night sky dark? In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 29-32.
- Gleick, J., 1992b, Chicken little, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 50-53.
- Gleick, J., 1992c, Faking it, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 293-297.
- Gleick, J., 1992d, The enigma of genius, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 357-362.
- Goldstein, T., 1988, *Dawn of Modern Science*, Houghton Mifflin: Boston.
- Goleman, D., 1992a, IQ isn't everything, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 140-145.
- Goleman, D., 1992b, The making of memory, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 135-139.
- Goleman, D., 1992c, The tenacity of prejudice, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 126-130.
- Gomory, R. E., 1993, Goals for the federal role in science and technology, *Physics Today*, 46(5), pp. 42-45.
- Gould, S. J., 1981, *The Mismeasure of Man*, W. W. Norton: New York.
- Gould, S. J., 1990, Enigmas of the small shellies, *Natural History*, 1990(10), pp. 6-17.
- Gregory, R. L., 1966, *Eye and Brain; The Psychology of Seeing*, McGraw-Hill: New York.
- Harris, S., 1970, *What's So Funny about Science?* William Kaufmann, Inc.: Los Altos, CA.
- Harris, S., 1982, *What's So Funny about Computers?* William Kaufmann, Inc.: Los Altos, CA.
- Hartmann, W. K., 1983, *Moons and Planets (2nd ed.)*, Wadsworth Publ.: Belmont, CA.
- Haskins, C. H., 1927, *The Renaissance of the Twelfth Century*, World-New American Library: New York.
- Hastorf, A. H., and H. Cantril, 1954, They saw a game: a case study, *Journal Abn. Soc. Psych.*, 49, pp. 129-134.
- Heisenberg, W., 1927, Principle of indeterminacy, *Z. Physik*, 43, pp. 172-198.
- Heisenberg, W., 1958, *Physics and Philosophy; The Revolution in Modern Science*, Harper: New York.
- Helmholtz, H. von, 1891, cited by: Koenigsberger, L., 1906, *Hermann von Helmholtz*, F. A. Welby (transl.), Clarendon Press: Oxford.
- Helmholtz, H. von, 1903, *Vorträge u. Reden, 5th Aufl.*, F. Vieweg und Sohn: Braunschweig.
- Hemingway, E., 1940, The Snows of Kilimanjaro, In A. Gingrich (Ed.), *The Bedside Esquire*, Grossett & Dunlap: New York, pp. 253-274.
- Heminway, J., 1983, *No Man's Land, A Personal Journey into Africa*, Warner Books: New York.
- Heraclitus, ~550-475 B.C., cited by: G. S. Kirk, 1970, *Heraclitus; The Cosmic Fragments*, Cambridge Univ. Press: London.
- Hesse, H., 1923, *Siddharta*, H. Rosner (transl.), 1951, New Directions Publishing Co.: New York.

- Hilts, P. J., 1992, Heterosexuals and AIDS, *In R. Flaste (Ed.), New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 190-194.
- Hoening, S. A., 1980, *How to Build and Use Electronic Devices Without Frustration, Panic, Mountains of Money, or an Engineering Degree (2nd ed.)*, Little, Brown: Boston.
- Hoffman, M. S. (Ed.), 1990, *The World Almanac and Book of Facts*, Pharos Books: New York.
- Hoffmann, B., 1972, *Albert Einstein, Creator and Rebel*, Viking Press: New York.
- Hofstadter, D. R., 1985, *Metamagical Themas: Questing for the Essence of Mind and Pattern*, Basic Books: New York.
- Holton, G. J., and D. R. D. Roller, 1958, *Foundations of Modern Physical Science*, Addison-Wesley Pub.: Reading, MA.
- Hoover, K. R., 1988, *The Elements of Social Scientific Thinking (4th ed.)*, St. Martin's Press: New York.
- Houdini, H., 1874-1926, cited by: N. L. Browning, 1970, *The Psychic World of Peter Hurkos*, Doubleday: Garden City, NY.
- Hubbard, R., 1957, Have only men evolved? *In Hubbard, R., M. S. Henefin, and B. Fried (Eds.), Women Look at Biology Looking at Women*, Schenkman Publishing Co.: Cambridge, pp. 7-36.
- Hume, D., 1935, *An Enquiry Concerning Human Understanding*, Open Court Publ. Co.: Chicago.
- Hurley, P. J., 1985, *A Concise Introduction to Logic*, Wadsworth Publ. Co.: Belmont, CA.
- Ibrahim, Y. M., 1991, Arab bus kills Israeli and driver is slain, *New York Times*, Jan. 5, p. L-3.
- Ittelson, W. H., and F. P. Kilpatrick, 1951, Experiments in perception, *Sci. Amer.*, 185(2), pp. 50-55.
- Jarrard, R. D., 1994, Gomory's 'goals' too narrowly national, *Physics Today*, 47(7), pp. 13-14.
- Jason, G., 1989, *The Logic of Scientific Discovery*, Peter Lang: New York.
- Jefferson Starship, 1970, *Have You Seen the Stars Tonite*, *In Blows Against the Empire*, RCA Records: New York.
- Jeffrey, R. C., 1985, Probability and the art of judgment, *In P. Achinstein & O. Hannaway (Eds.), Observation, Experiment, and Hypothesis in Modern Physical Science*, M.I.T. Press: Cambridge, MA, pp. 95-126.
- Jones, L., 1990, *In Earthquake, Nova (PBS TV)*.
- Kennedy, J. F., 1963, Address to the National Academy of Sciences.
- Killeffer, D. H., 1969, *How Did You Think of That? An Introduction to the Scientific Method*, Doubleday: Garden City, NY.
- Kohlberg, L., 1981, *Essays on Moral Development: Vol. 1. The Philosophy of Moral Development*, Harper & Row: New York.
- Kohlberg, L., 1984, *Essays on Moral Development: Vol. 2. The Psychology of Moral Development*, Harper & Row: New York.
- Kolata, G., 1992a, Is alcoholism inherited? *In R. Flaste (Ed.), New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 229-232.
- Kolata, G., 1992b, The burden of proof, *In R. Flaste (Ed.), New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 223-228.

- Kropotkin, P. A., 1899, *Memoirs of a Revolutionist*, Houghton, Mifflin & Co.: Boston.
- Kuhn, D., E. Amsel, and M. O'Loughlin, 1988, *The Development of Scientific Thinking Skills*, Academic Press: San Diego.
- Kuhn, T., 1970, *The Structure of Scientific Revolutions (2nd ed.)*, Univ. of Chicago Press: Chicago.
- Kuhn, T., 1977, *The Essential Tension: Selected Studies in Scientific Tradition and Change*, Univ. of Chicago Press: Chicago.
- Lakatos, I., 1970, Falsification and the methodology of scientific research programs, In I. Lakatos and A. Musgrave (Eds.), *Criticism and the Growth of Knowledge*, Cambridge Univ. Press: Cambridge, U.K., pp. 91-195.
- Lambert, K., and G. Brittan, Jr., 1970, *An Introduction to the Philosophy of Science*, Prentice Hall: Englewood Cliffs, NJ.
- Langmuir, I., 1928, Atomic hydrogen as an aid to industrial research, *Ind. & Engin. Chem.*, 20, pp. 332-336.
- Larson, G., 1980, *The Far Side Gallery*, Andrews, McMeel & Parker: Kansas City.
- Larson, G., 1985, *Valley of the Far Side*, Andrews and McMeel: Kansas City.
- Larson, G., 1987, *The Far Side Observer*, Andrews and McMeel: Kansas City.
- Larson, G., 1989, *Wildlife Preserves: A Far Side Collection*, Andrews and McMeel: Kansas City.
- Lee, D., 1950, Codifications of reality: lineal and nonlinear, *Psychosomatic Medicine*, 12(2), pp. 89-97.
- Lenzen, V. F., 1938, Procedures of empirical science, In O. Neurath, R. Carnap and C. Morris (Eds.), *International Encyclopedia of Unified Science*, University of Chicago Press: Chicago, pp. 279-339.
- Leuba, J. H., 1925, *The Psychology of Religious Mysticism*, Harcourt, Brace & Co.: New York.
- Loehle, C., 1990, A guide to increased creativity in research – inspiration or perspiration? *Bio-Science*, 40, pp. 123-129.
- Lord, C. G., L. Ross, and M. R. Lepper, 1979, Biased assimilation and attitude polarization: the effects of prior theories on subsequently considered evidence, *J. Personality and Social Psychology*, 37, pp. 2098-2109.
- Lorenz, K. Z., 1962, *King Solomon's Ring*, Time Inc.: New York.
- Lubkin, G. B., I. Goodwin, R. L. Byer, P. M. Eisenberger, K. Gottfried, L. H. Greene, D. N. Langenberg, E. J. Moniz, D. T. Moore, and S. C. Solomon, 1995, Roundtable: whither now our research universities?, *Physics Today*, 48(3), pp. 42-51.
- Luoma, J. R., 1992, Lake 302, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 245-249.
- Maddox, J., 1993, Competition and the death of science, *Nature*, 363, p. 667.
- Magnus, A., ~1250, *De Animalibus*, H. Stadler (Ed.), 1916-1921, Aschendorff: Münster.
- Mannoia, V. J., 1980, *What is Science? An Introduction to the Structure and Methodology of Science*, University Press of America: Washington, DC.
- Matthiessen, P., 1978, *The Snow Leopard*, Viking Press: New York.
- Medawer, P. B., 1967, *The Art of the Soluble*, Methuen & Co.: London.

- Medawar, P. B., 1969, Induction and intuition in scientific thought, *Memoirs of the American Philosophical Society*, 75, pp. 1-62.
- Menard, H. W., 1986, *The Ocean of Truth, a Personal History of Global Tectonics*, Princeton Univ. Press: Princeton, NJ.
- Mill, J. S., 1930, *System of Logic*, Longmans, Green: New York.
- Minkowski, H., 1908, Space and time, In H. A. Lorentz, A. Einstein, H. Minkowski, and H. Weyl, 1952, *The Principle of Relativity*, Dover Pub.: London.
- Morris, C. W., 1938, Scientific empiricism, In O. Neurath, R. Carnap, and C. Morris (Eds.), *International Encyclopedia of Unified Science*, Univ. of Chicago Press: Chicago, pp. 63-75.
- Nair, K. R., 1940, Table of confidence interval for the median in samples from any continuous population, *Sankhya*, 4, pp. 551-558.
- National Science Foundation, Division of Science Resources Studies, 1994, *Characteristics of Doctoral Scientists and Engineers in the United States*, NSF 94-307.
- Neisser, U., 1968, The processes of vision, *Sci. Amer.*, 219(3), pp. 204-214.
- Newton, I., 1642-1727, cited by: D. Brewster (Ed.), 1855, *Memoirs of the Life, Writings, and Discoveries of Sir Isaac Newton, Vol. 2*, T. Constable & Co.: Edinburgh.
- Newton, I., 1676, cited by: R. K. Merton, 1965, *On the Shoulders of Giants; a Shandean Post-script*, Free Press: New York.
- Newton, I., 1687, *Principia*, A. Motte (transl.), 1729, with 1960 revisions by F. Cajori, Univ. Calif. Press: Berkeley.
- Newton, I., ~1700, cited by: B. Hoffmann, 1972, *Albert Einstein, Creator and Rebel*, Viking Press: New York.
- Nowak, M., and K. Sigmund, 1993, A strategy of win-stay, lose-shift that outperforms tit-for-tat in the Prisoner's Dilemma game, *Nature*, 364, pp. 56-58.
- Oliver, J. E., 1991, *The Incomplete Guide to the Art of Discovery*, Columbia Univ. Press: New York.
- Open University Science Foundation Course Team, 1970, *The Handling of Experimental Data*, The Open University Press: Bletchley, U.K..
- Oppenheimer, J. R., 1945, cited by: D. Schroerer, 1972, *Physics and its Fifth Dimension: Society*, Addison-Wesley: Reading, MA.
- Pasteur, L., 1822-1895, a, cited by: R. J. Dubos, 1950, *Louis Pasteur; Free Lance of Science*, Little, Brown & Co.: Boston.
- Pasteur, L., 1822-1895, b, cited by: R. Vallery-Radot, 1927, *The Life of Pasteur*, Garden City Publ. Co.: Garden City, NY.
- Pavlov, I. P., 1936, Bequest of Pavlov to the academic youth of his country, *Science*, 83, p. 369.
- Penzias, A. A., and R. W. Wilson, 1965, A measurement of excess antenna temperature at 4080 Mc/s, *Astrophys. J.*, 142, pp. 419-421.
- Percy, W., 1987, *The Thanatos Syndrome*, Ivy Books: New York.
- Phelps, E. J., 1899, Jan. 24 speech at Mansion House, London.
- Planck, M., 1949, *Scientific Autobiography and Other Papers*, F. Gaynor (transl.), Philosophical Library: New York.

- Plato, ~427-347 B.C., a, In B. Jowett (transl.), 1937, *The Dialogs of Plato (Republic VIII)*, Random House: New York.
- Plato, ~427-347 B.C., b, In J. McDowell (transl.), 1973, *Theaetetus*, Clarendon Press: Oxford.
- Platt, W., and R. A. Baker, 1931, The relation of the scientific “hunch” to research, *J. Chemical Education*, 8, pp. 1969-2002.
- Poincaré, H., 1905, *Science and Hypothesis*, (transl.), 1952, Dover Public.: New York.
- Poincaré, H., 1914, *Science and Method*, F. Maitland (transl.), T. Nelson & Sons: London.
- Pope, A., 1733, An Essay on Man, In C. M. Coffin (Ed.), 1954, *The Major Poets: English and American*, Harcourt, Brace and World: New York, pp. 240-241.
- Popper, K., 1959, *Logic of Scientific Discovery*, Basic Books: New York.
- Popper, K., 1963, *Conjectures and Refutations; The Growth of Scientific Knowledge*, Basic Books: New York.
- Popper, K. R., 1976, The logic of the social sciences, In T. W. Adorno, et al., *The Positivist Dispute in German Sociology*, Harper and Row: New York, pp. 87-122.
- Porter, G., 1986, Lest the edifice of science crumble, *New Scientist*, 111(1524), p. 16.
- Press, W. H., B. P. Flannery, S. A. Teukolsky, and W. T. Vetterling, 1988, *Numerical Recipes in C, The Art of Scientific Computing*, Cambridge Univ. Press: New York.
- Rapoport, A., and A. M. Chammah, 1965, *Prisoner's Dilemma; A Study in Conflict and Cooperation*, Univ. of Michigan Press: Ann Arbor.
- Reinfeld, F., 1959, *The Complete Chess Course*, Doubleday & Co.: Garden City, NY.
- Rifkin, J., with T. Howard, 1980, *Entropy; A New World View*, Viking Press: New York.
- Rilke, R. M., 1875-1926, S. Mitchell (transl.), 1984, *Letters to a Young Poet*, Random House: New York.
- Rushton, J. P., 1988, Scientific creativity: an individual differences perspective, *J. Social and Biol. Structures*, 11, pp. 140-143.
- Russell, B., 1927, *Philosophy*, W. W. Norton & Co.: New York.
- Russell, B., 1938, On the importance of logical form, In O. Neurath, R. Carnap, and C. Morris (Eds.), *International Encyclopedia of Unified Science*, Univ. of Chicago Press: Chicago, pp. 39-41.
- Salk, J., 1990, *Bill Moyer's World of Ideas: Jonas Salk*, PBS TV.
- Schwarzschild, B., 2001, Farthest supernova strengthens case for accelerating cosmic expansion, *Physics Today*, 54(6), pp. 17-20.
- Shah, I., 1970, *Tales of the Dervishes*, E.P. Dutton & Co.: New York.
- Shah, I., 1972, *The Exploits of the Incomparable Mulla Nasrudin*, E.P. Dutton & Co.: New York.
- Shakespeare, 1600, *As You Like It*, In H. Craig (Ed.), 1961, *The Complete Works of Shakespeare*, Scott, Foresman & Co.: Glenview, IL.
- Simonton, D. K., 1988, *Scientific Genius*, Cambridge Univ. Press: New York.
- Sindermann, C. J., 1987, *Survival Strategies for New Scientists*, Plenum Press: New York.
- Smith, P., 1930, *A History of Modern Culture, Vol. I*, Henry Holt & Co.: New York.

- Snow, C. P., 1964, *The Two Cultures; and A Second Look*, Mentor Books: New York.
- Spencer, H., 1883, *Education: Intellectual, Moral and Physical*, D. Appleton & Co.: New York.
- Spencer, J. H., 1983, The largest integer, In G. H. Scherr (Ed.), *The Best of the Journal of Irreproducible Results*, Workman Publ: New York, p. 145.
- Stevens, W., 1931, Metaphors of a Magnifico, In *Harmonium*, Alfred A. Knopf: New York.
- Stevens, W. K., 1992a, Dead heat, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 261-266.
- Stevens, W. K., 1992b, Wired, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 282-288.
- Sun Tzu, ~500 B.C., *The Art of War*, 1982 transl., Graham Brash (Pte) Ltd: Singapore.
- Teale, E. W. (Ed.), 1949, *The Insect World of J. Henri Fabre*, Dodd, Mead: New York.
- Teale, E. W., 1959, *Adventures in Nature*, Dodd, Mead: New York.
- Terkel, S., 1974, *Working*, Avon: New York.
- Thomas, D. H., 1998, *Archaeology (3rd Ed.)*, Harcourt Brace: Fort Worth, TX.
- Thomson, J. J., cited by: Thomson, G., 1961, *The Inspiration of Science*, Oxford Univ. Press: London.
- Thurstone, L. L., 1925, *The Fundamentals of Statistics*, Macmillan Co.: New York.
- Timpane, J., 1991, The poetry of science, *Scientific American*, 265(1), p. 128.
- Toulmin, S., 1967, The evolutionary development of natural science, *Am. Scientist*, 55, pp. 456-471.
- Trotter, W., 1941, *The Collected Papers of Wilfred Trotter, F.R.S.*, Oxford Univ. Press: London.
- Velikovsky, I., 1967, *Worlds in Collision*, Dell Publ. Co.: New York.
- Velikovsky, I., 1977, *Earth in Upheaval*, Pocket Books: New York.
- Virgil, 70-19 B.C., *Georgics II*, In G. B. Miles, 1980, *Virgil's Georgics; A New Interpretation*, Univ. Calif. Press: Berkeley.
- Wallace, A. R., 1853, *Travels on the Amazon and Rio Negro, with an Account of the Native Tribes, and Observations on the Climate, Geology, and Natural History of the Amazon Valley*, Ward: Lock, UK.
- Wallas, G., 1926, *The Art of Thought*, Harcourt & Brace: New York.
- Wason, P., 1966, Reasoning, In B. Foss (Ed.), *New Horizons in Psychology, Vol. 1*, Penguin: Harmondsworth, UK, pp. 135-154.
- Watterson, B., 1993, *The Days are Just Packed: A Calvin and Hobbes Collection by Bill Watterson*, Andrews and McMeel: Kansas City.
- Weber, R. L., 1973, *A Random Walk in Science*, Institute of Physics: London.
- Weyl, H., 1952, *Symmetry*, Princeton Univ. Press: Princeton.
- Whitman, W., 1892, Leaves of Grass, In *Walt Whitman; Complete Poetry and Collected Prose*, Literary Classics of United States: New York.
- Wilford, J. N., 1992a, Culture shock, In R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 101-105.

- Wilford, J. N., 1992b, Outer limits, *In* R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 38-41.
- Wilford, J. N., 1992c, Reaching for the stars, *In* R. Flaste (Ed.), *New York Times Book of Science Literacy*, Harper Perennial: New York, pp. 33-37.
- William of Conches, ~1150, cited by: M.-D. Chenu (transl. J. Taylor and L. K. Little), 1968, *Nature, Man, and Society in the Twelfth Century*, Univ. of Chicago Press: Chicago.
- Williams, S., and F. Montaigne, 2001, *Surviving Galeras*, Houghton Mifflin: Boston.
- Wilson, E. B., Jr., 1952, *An Introduction to Scientific Research*, McGraw-Hill: New York.
- Wolfe, T., 1936, *The Story of a Novel*, C. Scribner's Sons: New York.
- Wordsworth, W., 1798, *In* 1896, *The Complete Poetical Works of William Wordsworth, V. 1*, Macmillan & Co.: London.
- Wright, R., 2000, *Non Zero: the Logic of Human Destiny*, Pantheon Books: New York.
- Young, H. D., 1962, *Statistical Treatment of Experimental Data*, McGraw-Hill: New York.
- Ziman, J. M., 1969, Information, communication, knowledge, *Nature*, 224(5217), pp. 318-324.