

ZELLA BAIG

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Bibliography

- [1] F. Bacon. *Novum organum Scientiarum*. Londini, 1620.
- [2] C. B. Boyer. *The History of the Calculus and Its Conceptual Development*. Courier Corporation, 2012.
- [3] H. R. Brown. *Physical Relativity: Space-Time Structure from a Dynamical Perspective*. Oxford University Press, 2005.
- [4] C. Clavius. *Opera Mathematica*. Vol. 3. 1612, p. 2.
- [5] W. Clifford and R. Tucker. *Elements of Dynamic: An Introduction to the Study of Motion and Rest in Solid and Fluid Bodies*. v. 1-3. MacMillan and Company, 1878.
- [6] A. D. D. Craik. "Calculus and Analysis in Early 19th-Century Britain: The Work of William Wallace". In: *Historia Mathematica* 26.3 (1999).
- [7] M. J. Crowe. *A History of Vector Analysis: The Evolution of the Idea of a Vectorial System*. Courier Corporation, 1994.
- [8] O. Darrigol. "Henri Poincaré's Criticism of Fin De Siècle Electrodynamics". In: *Studies in History and Philosophy of Science Part B: Studies in History and Philosophy of Modern Physics* 26 (1995), pp. 1-44.
- [9] R. Fox. "The Rise and Fall of Laplacian Physics". In: *Historical Studies in the Physical Sciences* 4 (1974), pp. 89-136.
- [10] D. Gooding. *Final Steps to the Field Theory: Faraday's Study of Magnetic Phenomena, 1845-1850*. Berkeley, 1981.
- [11] D. Gooding and F. A. J. L. James. *In Nature's School': Faraday as an Experimentalist*. London: Macmillan Education UK, 1985, pp. 105-136.
- [12] J. L. Greenberg. "Mathematical Physics in Eighteenth-Century France". In: *Isis* 77.1 (1986), pp. 59-78.
- [13] N. Guicciardini. "Dot-Age: Newton's Mathematical Legacy in the Eighteenth Century". In: *Early Science and Medicine* 9.3 (2004), pp. 218-256.
- [14] N. Guicciardini. *The Development of Newtonian Calculus in Britain, 1700-1800*. Cambridge: Cambridge University Press, 1989.
- [15] B. J. Hunt. "Oliver Heaviside: A First-Rate Oddity". In: *Physics Today* 65.11 (2012), pp. 48-54.

- [16] B. J. Hunt. *The Maxwellians*. Cornell University Press, 1994.
- [17] M. Janssen and J. J. Stachel. *The Optics and Electrodynamics of Moving Bodies*. Max-Planck-Institute for the History of Science, 2004.
- [18] J. C. Maxwell. "A Dynamical Theory of the Electromagnetic Field". In: *Philosophical Transactions of the Royal Society of London* 155 (1865), pp. 459–512.
- [19] J. C. Maxwell. *A Treatise on Electricity and Magnetism*. Oxford: Clarendon Press, 1873.
- [20] J. C. Maxwell. *Matter and Motion*. Dover, 1877, pp. 89–90.
- [21] J. C. Maxwell. "On Faraday's Lines of Force." In: Cambridge: Cambridge University Press, 1856.
- [22] J. C. Maxwell. *On Physical Lines of Force*. London: Royal Society, 1861.
- [23] J. C. Maxwell and W. D. Niven. *The Scientific Papers of James Clerk Maxwell*. New York: Dover Publications, 1965.
- [24] J. Merz. *A History of European Thought in the Nineteenth Century*. A History of European Thought in the Nineteenth Century. Blackwood & Sons: London, 1896, Pp. xiv+, 458.
- [25] I. Newton. *MS Add.f. 243r*. Portsmouth Collection, 1670–1710.
- [26] I. Newton, B. Cohen, et al. *The Principia: Mathematical Principles of Natural Philosophy*. 3rd ed. University of California Press, 1999, p. 943.
- [27] I. Newton and J. E. McGuire. "Newton's "Principles of Philosophy": An Intended Preface for the 1704 "Opticks" and a Related Draft Fragment". In: *The British Journal for the History of Science* 5 (1970), pp. 178–186.
- [28] I. Newton and D. T. Whiteside. *The Mathematical Papers of Isaac Newton*. Vol. 7. Cambridge, 1967–1981.
- [29] H. Poincaré, J. Blondin, and E. Neculcea. *Electricité et Optique. La lumière et les Théories électrodynamiques (Sorbonne lectures of spring 1888, 1890, and 1899)*. 1901, pp. 403–420.
- [30] H. Poincaré and G. B. Halsted. *The Foundations of Science: Science and Hypothesis, the Value of Science, Science and Method*. Science Press, 1929, p. 147.
- [31] G. Rees. "Mathematics And Francis Bacon's Natural Philosophy". In: *Revue Internationale de Philosophie* 40 (159 (4) 1986), pp. 399–426.
- [32] W. Rindler. "Einstein's Priority in Recognizing Time Dilation Physically". In: *American Journal of Physics* 38 (1970), pp. 1111–1115.
- [33] A. E. Shapiro. "Newton's "Experimental Philosophy"". In: *Early Science and Medicine* 9.3 (2004), pp. 185–217.

- [34] C. Smith. "A New Chart for British Natural Philosophy: The Development of Energy Physics in the Nineteenth Century". In: *History of Science* (1978), pp. 231–279.
- [35] P. G. Tait. *Letter from Tait to Thomson, 12 December 1861*. Kelvin Papers. 1861.
- [36] W. Thomson. *On the Dynamical Theory of Heat, with Numerical Results Deduced from Mr Joule's Equivalent of a Thermal Unit, and M. Regnault's Observations on Steam*. Vol. 20. Transactions of the Royal Society of Edinburgh. 1851. 261-288.
- [37] W. Thomson and P. G. Tait. *Treatise on Natural Philosophy*. Clarendon Press, 1867.
- [38] R. S. Westfall. *Never at Rest: A Biography of Isaac Newton*. Cambridge: Cambridge University Press, 1981.