

Bibliography

Entries for papers [and books] are arranged in this order:

Author; title; periodical [place]; date; volume; pages; priority; location; notes.

1849

Maxwell, James Clerk. 'On the theory of rolling curves.' *Trans. Roy. Soc. Edinb.*, 1849, XVI, 519-540. Read 19.2.1849. SP, I, ii, 4-29. Royal Observatory Lib., Edinburgh: (offprint). [Maxwell's first printed paper. An earlier paper, read in 1846, was not printed until 1851.]

1851

Maxwell, James Clerk. 'On the description of oval curves, and those having a plurality of foci.' By Mr Clerk Maxwell junior; with remarks by Professor Forbes. *Proc. Roy. Soc. Edinb.*, April 1851 (1844-1850), II, 89-91 & plate II. Read 6.4.1846. SP, I, i, 1-3. [The first paper by Maxwell to be read, it was evidently not taken very seriously, being belatedly printed in 1851. The original manuscript survives in the Royal Society of Edinburgh.]

1853

Maxwell, James Clerk. 'On the equilibrium of elastic solids.' *Trans. Roy. Soc. Edinb.*, 1853, XX, 87-120. Read 18.2.1850. SP, I, iiiia, 30-73. [See also 'Solutions of problems', 1854.]

Maxwell, James Clerk. 'On a particular case of the descent of a heavy body in a resisting medium.' *Camb. & Dublin Math. J.*, 1854, IX, 145-148. Read, Trinity College, 5.4.1853. SP, I, v, 115-118. JCM Lib.:

Swainson, Charles Anthony (1820-1887)*. 'Solutions of problems.' *Camb. & Dublin Math. J.*, February 1854, IX, 7-19. SP, I, iiib, 74-79 [printed with 'On the equilibrium of elastic solids.']. [Continuation of 'Solutions of problems', 1853, VIII, 178-187 & 'Problems' (1-7), 1853, VIII, 188-189. [* signed 'C.A.S.' on page 19. The author of this paper has been identified by Mr A. E. B. Owen, Keeper of Manuscripts, Cambridge University Library, 24.10.1989.]

1855

Maxwell, James Clerk. 'On the theory of colours in relation to colour-blindness.' By James Clerk Maxwell, B.A., Trinity College, Cambridge. In a letter to Dr G. Wilson. [dated: Edinburgh, 4th Jan. 1855.] In: Wilson, George (1818-1859). *Researches on colour blindness. With a supplement on the danger attending the present system of railway and marine coloured signals.* Edinburgh, 1855, pp. 153-159. Also pp. v, 151, 173, 174-178, etc. ECL: RE.921 (B.3955). 1-4,xx,5-180 pp. 21.4×13.7 cm. See also: 'On the theory of colours in relation to colour-blindness,' 1856.

1856

Maxwell, James Clerk. 'Description of a new form of the platometer, an instrument for measuring the areas of plane figures drawn on paper.' *Trans. Roy. Scot. Soc. Arts*, 1856, IV, 420-429. Read 22.1.1855. SP, I, ix, 230-237. NLS: P.218.

Maxwell, James Clerk. 'On Faraday's lines of force.' [Abstract] *Phil. Mag.*, * 1856, XI, part 4, 404-405. Read 10.12.1855 & 11.2.1856. Printed in full 1864. Abstract reprinted 1866. SP, I, viii, 155-229. NLS: J.219; EUL: Zc.9.

* *London, Edinburgh & Dublin Philos. Mag. & J. of Sci.*

Maxwell, James Clerk. 'On the theory of colours in relation to colour-blindness.' A letter to Dr G. Wilson. Edinburgh, 4th Jan. 1855. *Trans. Roy. Scot. Soc. Arts*, 1856, IV, 394-400. SP, I, vi, 119-125. [First printed in George Wilson's book, *Researches on colour blindness*, Edinburgh, 1855. (q.v.)]

Maxwell, James Clerk. 'On the transformation of surfaces by bending.' *Trans. Camb. Phil. Soc.*, 1856, IX, 445-470. Read 13.3.1854. SP, I, iv, 80-114. EUL: PA. 2/1. [See: *The transformation of surfaces by bending*, 1866.]

1857

Maxwell, James Clerk. 'Account of experiments on the perception of colour.' *Philos. Mag.*, 1857, XIV, 40-47. SP, I, xvi, 263-270. NLS: Zc.9; JCM Lib.: ...

Maxwell, James Clerk. 'On a dynamical top, for exhibiting the phenomena of the motions of a body of invariable form about a fixed point, with some suggestions as to the earth's motion.' *Trans. Roy. Soc. Edinb.*, 1857, XXI, 559-570. Read 20.4.1857. SP, I, xv, 248-262.

Maxwell, James Clerk. 'Experiments on colour, as perceived by the eye, with remarks on colour-blindness.' *Trans. Roy. Soc. Edinb.*, 1857, (1853-57), XXI, 275-298 & plate VI. Read 19.3.1855. SP, I, vii, 126-154. EUL: Per. .5 Roy; E.B. .506 Roy.

Maxwell, James Clerk. 'On a method of drawing the theoretical forms of Faraday's lines of force without calculation.' *Rep. Brit. Assoc.*, 1857, 12. Read, Cheltenham, August 1856. SP, I, xi, 241. NLS: J.198, 199. H.-W. Univ.: 505.

Maxwell, James Clerk. 'On an instrument to illustrate Poinsôt's theory of rotation.' *Rep. Brit. Assoc.*, 1857, 27-28. Read, Cheltenham, August 1856. SP, I, xiv, 246-247. NLS: J.198, 199. H.-W. Univ.: 505.

Maxwell, James Clerk. 'On the theory of compound colours with reference to mixtures of blue and yellow light.' *Rep. Brit. Assoc.*, 1857, 12-13. Read, Cheltenham, August 1856. SP, I, xiii, 243-245. NLS: J.198, 199.

Maxwell, James Clerk. 'On the unequal sensibility of the Foramen Centrale to light of different colours.' *Rep. Brit. Assoc.*, 1857, 12. Read, Cheltenham, August 1856. SP, I, xii, 242. NLS: J.198, 199. H.-W. Univ.: 505. [See also: Brewster, Sir David. 'On vision through the Foramen Centrale of the retina.' *Rep. Brit. Assoc.* (held at London, 1858), 1859, part II, 7.]

1858

Maxwell, James Clerk. 'On the general laws of optical instruments.' *Quart. J. of Pure & Appl. Math.*, February 1858, II, 233-246. SP, I, xvii, 271-285. NLS: J.218; EUL: P.519/4.; Math Lib.

1859

Maxwell, James Clerk. *On the stability of the motion of Saturn's rings*. An essay, which obtained the Adams prize for the year 1856, in the University of Cambridge. By J. Clerk Maxwell, M.A. late fellow of Trinity College, Cambridge. Professor of Natural Philosophy in the Marischal College and University of Aberdeen. "E pur si muove." Cambridge: Macmillan and Co. and 23 Henrietta Street, Covent Garden, London. 1859. SP, I, xix, 288-376. NLS: Cx.3.; EUL: X.8.53/4.; BL: 8560.g.35 (2). vii,[1],72 pp. + plate (W. Metcalfe, Lithog, Cambridge). 27.2 × 21.3 cm. On pp. ii & 72: Cambridge: printed by C. J. Clay, M.A. at the University Press. On p. iii: The examiners gave notice on 23 March 1855 that the subject for the prize to be adjudged in 1857 was to be the "The Motions of Saturn's Rings." Also printed in: *Monthly Notices of the Roy. Astronom. Soc.*, 1859, 10, 297-384.

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1860

- Maxwell, James Clerk. 'Illustrations of the dynamical theory of gases.' I. On the motion and collision of perfectly elastic spheres. *Philos. Mag.*, January 1860, XIX, 19-32. II. On the process of diffusion of two or more kinds of moving particles among one another. *Philos. Mag.*, July 1860, XX, 21-33. III. On the collision of perfectly elastic bodies of any form. *Philos. Mag.*, July 1860, XX, 33-37. SP, I, xx, 377-409. NLS: J.219-220; NJ.319/2.; Royal Observatory Library, Edinburgh: (offprint).
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- Maxwell, James Clerk. 'On the mixture of the colours of the spectrum.' *Rep. Brit. Assoc.*, 1860, 15. Read, Aberdeen, September 1859. NLS: J.198, 199.

1861

- Maxwell, James Clerk. 'On an instrument for exhibiting any mixture of the colours of the spectrum.' *Rep. Brit. Assoc.*, 1861, 16. Read, Oxford, June & July 1860. NLS: J.198, 199.
- Maxwell, James Clerk. 'On physical lines of force.' I. The theory of molecular vortices applied to magnetic phenomena. *Philos. Mag.*, March 1861, XXI, 161-175. II. The theory of molecular vortices applied to electric currents. *Philos. Mag.*, April & May 1861, XXI, 281-291 + plate, 338-348. III. The theory of molecular vortices applied to statical electricity. *Philos. Mag.*, January 1862, XXIII, 12-24. IV. The theory of molecular vortices applied to the action of magnetism on polarised light. *Philos. Mag.*, January 1862, XXIII, 85-95. SP, I, xxiii, 451-513. NLS: J.219-220; NJ.319/2.
- Maxwell, James Clerk. 'On the results of Bernoulli's theory of gases as applied to their internal friction, their diffusion, and their conductivity for heat.' *Rep. Brit. Assoc.*, 1861, 15-16. Read, Oxford, June & July. NLS: J.198, 199.
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1862

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1864

- Maxwell, James Clerk. 'A dynamical theory of the electromagnetic field.' [Abstract] *Proc. Roy. Soc. Lond.*, 1864, XIII, 531. [This paper was printed in full in 1865. See also reprint of 1927.]
- Maxwell, James Clerk. 'On Faraday's lines of force.' *Trans. Camb. Philos. Soc.*, 1864, X, 27-83. Read 10.12.1855 & 11.2.1856. SP, I, viii, 155-229. [An abstract was printed in 1866.]
- Maxwell, James Clerk. 'On reciprocal figures and diagrams of forces.' *Philos. Mag.*, 1864, XXVII, 250-261. SP, I, xxiv, 514-525. NLS: J.219-220; NJ.319/2. EUL: Zc.9. [See also: On reciprocal figures, frames, and diagrams of forces, 1872.]
- Maxwell, James Clerk. 'On the calculation of the equilibrium and stiffness of frames.' *Philos. Mag.*, 1864, XXVII, 294-299. SP, I, xxvi, 598-604.

Maxwell, James Clerk; and others. 'Report of the Committee appointed by the British Association on standards of electrical resistance.' *Rep. Brit. Assoc.*, at Newcastle, August & September 1863, 1864, 111-176. Includes: Maxwell, James Clerk; Jenkin, Fleeming. Description of an experimental measurement of electrical resistance, made at King's College. Appendix D, pp. 163-176. Parts I, III, and IV by Maxwell. Part II by Jenkin.

1865

Maxwell, James Clerk. 'A dynamical theory of the electromagnetic field.' *Philos. Trans. Roy. Soc. Lond. for the year 1865*, 1865, CLV, 459-512. Received 27.10.1864. Read 8.12.1864. SP, I, xxv, 526-597. ECL: Q41 R88 L (15221). [See also: Abstract printed in 1864.]

Maxwell, James Clerk; and others. 'Report of the Committee on standards of electrical resistance.' *Rep. Brit. Assoc.*, at Bath, Sept. 1864, 1865, 345-367. Includes: Maxwell, James Clerk; Jenkin, Fleeming; Hockin, Charles. Description of a further experimental measurement of electrical resistance made at King's College. Appendix A, pp. 350-351. H-WUL: 505.

1866

Maxwell, James Clerk. 'On Faraday's lines of force.' [Abstract] *Proc. Camb. Philos. Soc.*, for 1843 to 1865, 1866, I, part xi, 160-162, and part xii, 163-166. Read 10.12.1855 and 11.2.1856. H-WUL: 505. [This paper was printed in full in 1864.]

Maxwell, James Clerk. 'On the elementary theory of optical instruments.' *Proc. Camb. Philos. Soc.*, for 1843 to 1865, 1866, I, part xii*, 173-175. Read 12.5.1856. SP, I, x, 238-240. NLS: P.160. H-WUL: 505. [* This part was printed and distributed by 28.4.1857.]

Maxwell, James Clerk. 'On the viscosity or internal friction of air and other gases.' (The Bakerian Lecture.) *Philos. Trans. Roy. Soc. Lond. for the year 1866*, 1866, CLVI, 249-268. Received 23.11.1865. Read 8.2.1866. SP, II, xxvii, 1-25. ECL: Q41 R88 L (15221). [An abstract was printed in *Proc. Roy. Soc. Lond.*, 1866, XV, 14-17.]

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Maxwell, James Clerk. 'Report of the Committee on standards of electrical resistance.' *Rep. Brit. Assoc.*, at Birmingham, September 1865, 1866, 308-313. H-WUL: 505.

1867

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Maxwell, James Clerk. 'On the equilibrium of a spherical envelope.' *Quart. J. of Pure & Appl. Math.*, 1867, VIII, 325-333. SP, II, xxx, 86-95. NLS: J.218. EUL: P.528/5. GUL: ...

Maxwell, James Clerk. 'On the theory of the maintenance of electric currents by mechanical work without the use of permanent magnets.' *Proc. Roy. Soc. Lond.*, 1867, XV, 397-402. Received 28.2.1867. Read 14.3.1867. SP, II, xxix, 79-85. GUL: ... Royal Observatory Library, Edinburgh: (offprint).

1868

Maxwell, James Clerk. 'Experiment in magneto-electric induction.' (in a letter to W. R. Grove, F.R.S.) 8 Palace Gardens Terrace, W. March 27, 1868. *Philos. Mag.*, May 1868, XXXV, 360-363. SP, II, xxxv, 121-124.

- Maxwell, James Clerk. 'On a method of making a direct comparison of electrostatic with electromagnetic force; with a note on the electromagnetic theory of light.' [Abstract] *Proc. Roy. Soc. Lond.*, 1868, XVI, 449-450. EUL: ... [The paper was printed in full in *Phil. Trans. Roy. Soc. Lond. for 1868*, 1869, CLVIII, 643-658.]
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- Maxwell, James Clerk. 'On a real-image stereoscope.' *Rep. Brit. Assoc.*, at Dundee, September 1867, 1868, 11. [The Zoetrope? See also: On the cyclide, 1868.]
- Maxwell, James Clerk. 'On governors.' *Proc. Roy. Soc. Lond.*, 1868, XVI, 100, 270-283. Read 5.3.1868. SP, II, xxxiv, 105-120. BL: Ac. 3025/21.
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- Maxwell, James Clerk. 'On the cyclide.' *Quart. J. of Pure & Appl. Math.*, 1868, IX, 111-126. SP, II, xxxvii, 144-159. EUL: P.528/4. GUL: ... [See also: On a real-image stereoscope, 1868.]
- Maxwell, James Clerk. 'On the dynamical theory of gases.' *Philos. Trans. Roy. Soc. Lond. for the year 1867*, 1868, CLVII, 49-88. Read 1.5.1866. SP, II, xxviii, 26-78. NLS: ... GUL: ... [Everett considers this to be "Maxwell's greatest single paper." See also: On the dynamical theory of gases, 1860.]
- Maxwell, James Clerk. 'On the dynamical theory of gases.' *Philos. Mag.*, 1868, XXXV, 129-145, 185-217. [From the *Philos. Trans.*, 1868, CLVII, 49-88. See also: On the dynamical theory of gases, 1860.]
- Maxwell, James Clerk. 'On the final distribution of velocity among the molecules of two systems acting on one another according to any law of force.' *Philos. Mag.*, 1868, XXXV, 185-217. [This is not a separate paper. It is a continuation of 'On the dynamical theory of gases', the first part of which was printed in pp. 129-145, the above title being merely a sub-heading. It is repeated here so that searchers can be guided to the main reference.]
- Maxwell, James Clerk. 'On the theory of diagrams of forces as applied to roofs and bridges.' *Rep. Brit. Assoc.*, at Dundee, September 1867, 1868, 156. H-WUL: 505.
- Maxwell, James Clerk; and others. 'Report of the Committee on standards of electrical resistance.' *Rep. Brit. Assoc.*, at Dundee, September 1867, 1868, 474-522. H-WUL: 505.

1869

- Maxwell, James Clerk. 'The construction of stereograms of surfaces.' *Proc. Lond. Math. Soc.*, Nov. 1866 to Nov. 1869, 1869, II, 57. SP, II, xxxii, 101. University College, London: Phys. Sci. Lib.
- Maxwell, James Clerk. 'On a method of making a direct comparison of electrostatic with electromagnetic force; with a note on the electromagnetic theory of light.' *Philos. Trans. Roy. Soc. Lond. for 1868*, 1869, CLVIII, 643-657. Received 10.6.1868. Read 18.6.1868. SP, II, xxxvi, 125-143. NLS: ... [Abstract printed twice in 1868.]
- Maxwell, James Clerk. 'On J. B. Listing's paper, "On the kinds of cycloids in lines, surfaces, and regions of space", in the 10th volume of the Gottingen Transactions.' *Proc. Lond. Math. Soc.*, * Nov. 1866 to Nov. 1869, 1869, II, 165-166. University College, London: Phys. Sci. Lib., D. M. S. Watson Building, Gower Street, London, WC1E 6BT. (Mrs Munro, Maths. Librarian.) Tel.: 081-387-7050. (Jill Baillie, ext. 2626.) Vol.I = January 1865 to November 1866. * These Proceedings are from the library of the London Mathematical Society, whose office is today in Burlington House, Piccadilly, London, W.1. (Tel.: 081-437-5377.)
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- Maxwell, James Clerk; and others. 'Report of the Committee for the purpose of investigating the rate of increase of underground temperature downwards in various localities, of dry land and under water.' *Rep. Brit. Assoc.*, at Norwich, August 1868, 1869, 510-514. H-WUL: 505.
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1870

- Maxwell, James Clerk. 'Address to the Mathematical and Physical Science Sections of the British Association.' [Abstract] *Nature*, 22.9.1870, II, 419-422. Given at Liverpool, 22.9.1870. [Printed in full in 1871.]
- Maxwell, James Clerk. 'Experiments on the value of ν , the ratio of the electromagnetic to the electrostatic unit of electricity.' *Rep. Brit. Assoc.*, at Exeter, August 1869, 1870, 436-438. H-WUL: 505.
- Maxwell, James Clerk. 'On hills and dales.' *Philos. Mag.*, December 1870, XL, 421-426. Dated: Glenlair, Dalbeattie, October 12, 1870. SP, II, xliii, 233-240. GUL: ... [See also: On hills and dales, 1871.]
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22.9.1870. SP, II, xli, 215-229. NLS: J.198, 199. [Abstract printed in *Nature*, 1870, II, 419-422.]

1871

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- Maxwell, James Clerk. 'Question as to positive direction of rotation.' *Proc. Lond. Math. Soc.*, 1871, III, 279-280, 324 (note). NLS: J.218.
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1872

- Maxwell, James Clerk. 'Addition to a paper by Francis Deas on spectra formed by the passage of polarised light through double refracting crystals.' *Trans. Roy. Soc. Edinb.*, 1872, XXVI, 185-188. EUL: Per. .5 Roy. [Refers to: Deas, Francis. 'On spectra formed by the passage of polarised light through double refracting crystals.' *Trans. Roy. Soc. Edinb.*, 1872, XXVI, 177-185. Read, 6.6.1870.]
- Maxwell, James Clerk. 'On a bow seen on the surface of ice.' *Proc. Roy. Soc. Edinb.*, 1872, VII, 69. SP, II, xxxviii, 160.
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1873

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- Maxwell, James Clerk. 'On the application of Hamilton's characteristic function to the theory of an optical instrument symmetrical about its axis.' *Proc. Lond. Math. Soc.*, 1875, VI, part 83, 117-122. Read 8.4.1875. SP, II, lxxii, 439-444. GUL: (offprint).
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- Maxwell, James Clerk; and others. 'Report of the Committee appointed for the purpose of testing the new pyrometer of Mr. Siemens.' *Rep. Brit. Assoc.*, at Belfast, August 1874, 1875, pp. 242-249. H-WUL: 505.
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- Maxwell, James Clerk. 'On the solution of electrical problems by the transformation of conjugate functions.' *Proc. Camb. Philos. Soc.*, 1876, II, part xiii, 242-243. Read 27.11.1871. SP, II, xliv, 256. H-WUL: 505.
- Maxwell, James Clerk. 'Whewell's writings and correspondence.' [Review] *Nature*, 6.7.1876, XIV, 206-208. SP, II, lxxx, 528-532. [William Whewell (1794-1866).] [Todhunter, Isaac. *William Whewell, master of Trinity College, Cambridge. An account of his writings with selections from his literary and scientific correspondence*. London, 1876. 2 vols. See also 1970 reprint which includes the review by James Clerk Maxwell.]
- Maxwell, James Clerk; and others. 'Seventh report of the Committee for the purpose of investigating the rate of increase of underground temperature downwards in various localities, of dry land and under water.' *Rep. Brit. Assoc.*, at Bristol, August 1875, 1876, pp. 14-18. H-WUL: 505.
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- Maxwell, James Clerk. 'Hermann Ludwig Ferdinand Helmholtz.' *Nature*, 8.3.1877, XV, 389-391. SP, II, lxxxiv, 592-598. H-WUL: ...
- Maxwell, James Clerk. 'On the equilibrium of heterogeneous substances.' In: South Kensington Museum. *Conferences held in connection with the Special Loan Collection of Scientific Apparatus. 1876. (Volume 1.) Physics and mechanics*. Published for the Lords of the Committee of Council on Education by Chapman and Hall, 193, Piccadilly. [1877], pp. 145-150. Read 24.5.1876. Royal Museum of Scotland Lib.: ... Science Museum Lib.: 1877/4. National Art Library (V&A): AR-E-A. [On Professor Josiah Willard Gibbs' Thermodynamic formulation for coexistent phases. An earlier version was read to the Cambridge Philosophical Society on 8.3.1876, and an abstract printed in their *Proceedings*, II, 427-430. This was again printed in the *Scientific Papers*, 1890, II, lxxvi, 498-500. Another reprint appeared in 1908.]
- Maxwell, James Clerk. 'On the protection of buildings from lightning.' *Rep. Brit. Assoc.*, at Glasgow, September 1876, 1877, 43-45. NLS: J. 198, 199. [See also under 1876.]
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- Maxwell, James Clerk; and others. 'First report of the Committee appointed for the purpose of determining the mechanical equivalent of heat.' *Rep. Brit. Assoc.*, at Glasgow, September 1876, 1877, page 275. H-WUL: 505.

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- Maxwell, James Clerk; and others. 'Report of the Committee for testing experimentally Ohm's law.' *Rep. Brit. Assoc.*, at Glasgow, September 1876, 1877, 36-63. SP, II, lxxxii, 533-537. NLS: J. 198, 199. [Niven altered the title of this paper to the misleading 'On Ohm's law.']
- Tait, Peter Guthrie. 'Elementary physics.' [Review] *Nature*, 14.6.1877, XVI, 119-122. EUL: Per. .5 Nat. [Review of *Matter and motion*.]

1878

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- Maxwell, James Clerk. 'On stresses in rarified gases arising from inequalities in temperature.' [Abstract] *Nature*, 9.5.1878, XVIII, 54-55. Read, Royal Society of London, 11.4.1878. EUL: ... [The paper was printed in full in 1879.]
- Maxwell, James Clerk. 'On the electrical capacity of a long narrow cylinder, and of a disk of sensible thickness.' *Proc. Lond. Math. Soc.*, 1878, IX, 94-101. Read 14.3.1878. SP, II, xcii, 672-680.
- Maxwell, James Clerk. 'Paradoxical philosophy.' [Review] *Nature*, 19.12.1878, XIX, 141-143. SP, II, xcvi, 756-762. H-WUL: ...
- Maxwell, James Clerk. 'Tait's Thermodynamics.' [Review] *Nature*, 31.1.1878, 257-259; 7.2.1878, 278-280. SP, II, xci, 660-671. H-WUL: ... [Peter Guthrie Tait (1831-1901).]
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- Maxwell, James Clerk. [Theory of heat.] *Theorie der Wärme*. Braunschweig, Vieweg und Sohn, 1878. Third ed. Rayleigh Library, Cambridge: ...
- Maxwell, James Clerk; and others. 'Tenth report of the Committee for the purpose of investigating the rate of increase of underground temperature downwards in various localities, of dry land and under water.' *Rep. Brit. Assoc.*, at Plymouth, August 1877, 1878, 194-199. H-WUL: 505.

1879

- Maxwell, James Clerk. 'Faraday.' *Ency. Brit.*, 9th ed., 1875-89, IX (1879), 29-31. SP, II, xcix, 786-793. ECL: W AE 5 (1246). [See also article on Farady in *Nature*, 1873, VIII, 397-399. (SP, II, lxi, 355-360.)]
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- Maxwell, James Clerk. 'On stresses in rarified gases arising from inequalities in temperature.' *Philos. Trans. Roy. Soc. Lond. for 1879*, 1879, CLXX, part i, 231-248, & Appendix*, 249-256. Received 19.3.1878. Read 11.4.1878. * Added May 1879. SP, II, xciii, 681-712. ECL: Q41 R88 L (15221). GUL: ... [An abstract of this paper was printed in *Nature*, 1878.]
- Maxwell, James Clerk. (Guthrie's Physics.) Practical physics, molecular physics, and sound. By Frederick Guthrie. [Review] *Nature*, 6.2.1879, XIX, 311-312.

- Maxwell, James Clerk; Fleischl, Ernst von (translator). [Matter and motion.] *Substanz und Bewegung. Ins Deutsche übersetzung von Ernst v. Fleischl.* Braunschweig, Vieweg und Sohn, 1879. Rayleigh Library, Cambridge: ...
- Maxwell, James Clerk. 'Reports on special branches of science.' In: 'Report of the Committee appointed for the purpose of endeavouring to procure reports on the progress of the chief branches of mathematics and physics.' *Rep. Brit. Assoc.*, at Sheffield, August 1879, 1879, 37-38. SP, II, c, 794. NLS: J. 198, 199. H-WUL: 505. [Niven's failure to give the date of this little paper gave me much trouble, and considering that it is not indexed under the above title, he may not even have known it, but only printed a text from a secondary source. W.T.J.]
- Maxwell, James Clerk. 'Thomson and Tait's Natural philosophy.' [Review] *Nature*, 3.7.1879, XX, 213-216. SP, II, xcvi, 776-785. H-WUL: ...
- Maxwell, James Clerk; and others. 'Eleventh report of the Committee for the purpose of investigating the rate of increase of underground temperature downwards in various localities, of dry land and under water.' *Rep. Brit. Assoc.*, at Dublin, August 1878, 1879, 178-183. H-WUL: 505.
- Maxwell, James Clerk; and others. 'Third report of the Committee appointed for the purpose of determining the mechanical equivalent of heat.' *Rep. Brit. Assoc.*, at Dublin, August 1878, 1879, p. 102. H-WUL: 505.
- Maxwell, James Clerk; and others. 'Fourth report of the Committee appointed for the purpose of determining the mechanical equivalent of heat.' *Rep. Brit. Assoc.*, at Sheffield, August 1879, 1879, p. 36. H-WUL: 505.
- Maxwell, James Clerk; and others. 'Report of the Committee appointed for the purpose of endeavouring to procure reports on the progress of the chief branches of mathematics and physics.' *Rep. Brit. Assoc.*, at Sheffield, August 1879, 1879, 37-40. H-WUL: 505. [Includes: 'Reports on special branches of science.']
- Maxwell, James Clerk; and others. 'Report of the Committee for commencing secular experiments upon the elasticity of wires.' *Rep. Brit. Assoc.*, at Dublin, August 1878, 1879, 103-104. H-WUL: 505.
- Maxwell, James Clerk; and others. 'Second report of the Committee for commencing secular experiments upon the elasticity of wires.' *Rep. Brit. Assoc.*, at Sheffield, August 1879, 1879, 33-36. H-WUL: 505.
- Maxwell, James Clerk; and others. 'Twelfth report of the Committee for the purpose of investigating the rate of increase of underground temperature downwards in various localities, of dry land and under water.' *Rep. Brit. Assoc.*, at Sheffield, August 1879, 1879, 40-46. H-WUL: 505.
- Cavendish, Henry (1731-1810); Maxwell, James Clerk (ed.). *The electrical researches of the Honourable Henry Cavendish, F.R.S. written between 1771 and 1781, edited from the original manuscripts in the possession of the Duke of Devonshire, K.G., by J. Clerk Maxwell, F.R.S. Edited for the Syndics of the University Press.* Cambridge, ..., 1879. NLS: N.43.a. EUL: O*. 13. 34. H-WUL: 537 MAX. BL: 8757.d.5. Mitchell Lib.: D.109815. GUL: ... lxvi,454,1,[1] pp. 22 × 14.3 cm. With frontispiece portrait of Maxwell (photograph, pasted in). [see also editions of 1921 and 1967.]
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5th November 1879. Death of James Clerk Maxwell, at Cambridge.

Obituary: *Scotsman*, 7.11.1879, 4c-d.

Obituary: *The Times*, 7.11.1879, 6c.

Garnett, William. 'James Clerk Maxwell, F.R.S.' *Nature*, 13.11.1879, XXI, 43-46. ECL: ...

- Maxwell, James Clerk. 'Harmonic analysis.' *Ency. Brit.*, 9th ed., 1875-89, XI (1880), 481-482. SP, II, ci, 797-801. ECL: W AE 5 (1246).
- Maxwell, James Clerk. 'On a paradox in the theory of attraction.' *Proc. Camb. Philos. Soc.*, 1880, III, part i, 34-39. Read 12.3.1877. SP, II, lxxxv, 599-603. H-WUL: 505. GUL: ...
- Maxwell, James Clerk. 'On a possible mode of detecting a motion of the solar system through the luminiferous ether.' In a letter to Mr D. P. Todd, Director of the *Nautical Almanac* Office, Washington, U.S. Communicated by Prof. Stoke, Sec. R.S. Letter is dated: Cavendish Laboratory, Cambridge, 19th March, 1879. *Nature*, 29.1.1880, XXI, 314-315.
- Maxwell, James Clerk. 'On approximate multiple integration between limits by summation.' *Proc. Camb. Philos. Soc.*, 1880, III, part i, 39-47. Read 12.3.1877. SP, II, lxxxvi, 604-611. H-WUL: 505. GUL: ...
- Maxwell, James Clerk. 'On the unpublished electrical papers of the Hon. Henry Cavendish.' *Proc. Camb. Philos. Soc.*, 1880, III, part iii, 86-89. Read 29.10.1877. SP, II, lxxxvii, 612-615. H-WUL: 505.
- Tait, Peter Guthrie. 'James Clerk Maxwell.' *Proc. Roy. Soc. Edinb.*, 1880, X, 331-339.
- Tait, Peter Guthrie. 'Clerk-Maxwell's scientific work.' *Nature*, 5.2.1880, XXI, 317-321. ECL: ...

1881

- Maxwell, James Clerk; Garnett, William (ed.). *An elementary treatise on electricity*. Ed. by W. Garnett. Oxford, 1881. NLS: N.46.a. EUL: O* 12.50.; R.R.; JCM 537 Cle. BL: 12205.r.18. GUL: ... (Clarendon Press Series.) xvi,208 pp. 8vo. Second ed., 1888. NLS: N.46.a. BL: 2320.h.2. GUL: ...
- Maxwell, James Clerk; Fleischl, Ernst von (translator). [Matter and motion.] *Substanz und Bewegung von J. Clerk Maxwell; ins deutsche übersetzt von Ernst v. Fleischl*. Braunschweig: Vieweg und Sohn, 1881. NLS: Ab.1.78.202. xiv,144 pp. 17 cm. [Mit Bewilligung des Autors und der Society for Promoting Christian Knowledge.] [Garnett, William?] 'Scientific worthies. XVIII.—James Clerk Maxwell.' *Nature*, 27.10.1881, XXIV, p. 601, & steel plate engraving. NLS: P.180. EUL: Per. .5 Nat. (lacks engraving) ECL: ... (lacks engraving).

1882

- Campbell, Lewis; Garnett, William. *The life of James Clerk Maxwell, with a selection from his correspondence, and occasional writings and a sketch of his contributions to science*. London, Macmillan, 1882. NLS: Hall.228.b. EUL: R* 12.54.; .53 (42081) 092 Cle. Cam.; JCM 92:53 Max. Cam. H-WUL: 530.092 CAM. ECL: YQC 16 M1 (R.40842). Mitchell Lib.: B.70121. xvi,662 pp. + 2 pp. adverts. 22 × 14.4 cm. [Illustrated. With index, but few letters are noticed. Printed by R. & R. Clark, Edinburgh.] See new edition, 1884, which, although abridged, has additional letters. NLS: ... EUL: ... GUL: ... Reprinted: New York, 1969. With a new preface and appendix with letters. [Selected from the 1884 edition].
- Maxwell, James Clerk. 'Are there real analogies in nature?' In: Campbell, Lewis & Garnett, William. *The life of James Clerk Maxwell*, ... London, 1882, 235-244. Read, Apostles Club, Cambridge, February 1856.
- Maxwell, James Clerk. 'Does the progress of physical science tend to give any advantage to the opinion of necessity (or determinism) over that of the contingency of events and the freedom of the will?' (Science and free will.) In: Campbell, Lewis & Garnett, William. *The life of James Clerk Maxwell*, ... London, 1882, 434-444. Read, Cambridge, 11.2.1873.
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Campbell, Lewis; Garnett, William. *The life of James Clerk Maxwell, with a selection from his correspondence*, ... London, 1884. NLS: ABS.1.84.226. EUL: Bt.4.23. New edition, abridged and revised. First edition was printed in 1882. No index. With additional letters of Maxwell to Faraday, 9.11.1857, 30.11.1859, 21.5.1861; to Dr Huggins, 2.5.1872, 13.10.1868. Introduction seems to say that there is a further letter from Faraday to Maxwell, but I have not found any more. The lack of an index is a hindrance.

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Garnett, William. *Heroes of science.* London, 1885. NLS: ... ECL: YQC 16 M1 (A.4274). James Clerk Maxwell: pp. 278-308.

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Rosenberger, Ferdinand. *Die Geschichte der Physik in Grundzügen, ...* Braunschweig, 1882-1890. EUL: Yx.6.71-72. [Not in NLS.] Vol. I, 1882; vol. II, 1884; vol. III, part 1, 1887; part 2, 1890. James Clerk Maxwell: III, 174, 204, 306, 409, 415, 499, 532, 561*-570, 575, 671, 675-676, 683, 711, 752, 757, 758, 771-774.

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Boltzmann, Ludwig. *Vorlesungen über Maxwells Theorie der Elektrizität und des Lichtes.* Leipzig, 1891-93. 2 parts. EUL: Yx.7.70. Boltzmann quotes Goethe:

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Euch lehren, was ich selbst nicht weiss.

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Hertz, Heinrich; Jones, D. E. (translator). *Electric waves, being researches on the propagation of electric action with finite velocity through space.* London, 1893. NLS: N.23.c. 279,[1] pp. Printed by R. & R. Clark, Edinburgh. James Clerk Maxwell: IX. The forces of electric oscillations, treated according to Maxwell's theory. 137-159, & passim. See also 1900 edition. NLS: N.23.d.

Thomson, Sir Joseph John. *Notes on recent researches in electricity and magnetism, intended as a sequel to Professor Clerk-Maxwell's Treatise on electricity and magnetism.* Oxford, 1893. EUL: X*.14.3.; ... H-WUL: .537 Tho. (Clarendon Press Series.) xvi,578 pp. 22 × 13.8 cm.

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Fahie, John Joseph. *A history of wireless telegraphy 1838-1899. Including some bare-wire proposals for subaqueous telegraphs*. Edinburgh, Blackwood, 1899. NLS: T.430.g. xvii,[1],325,[1] pp. 18.6 × 12.4 cm. James Clerk Maxwell: pp. 178, 186, 249, 254, 257, 264 et seq.

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Duhem, Pierre Maurice Marie. *Les théories électriques de J. Clerk Maxwell. Étude historique et critique*. Paris, 1902. EUL: Zf.5.49. 8vo.

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'Some scientific centres. VI.—The Cavendish Laboratory.' *Nature*, 10.12.1903, LXIX, 128-132.

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does not say where he saw a copy. It is only in February 2002, thanks to Mr E. Fenwick, that we now know that this book was actually published in 1910, and that he has traced a single copy to New College Library, Edinburgh! Curiously, another work also found its way here: *Emma Darwin, wife of Charles Darwin: a century of family letters. By her daughter, H. E. Litchfield.* Cambridge, 1904. Privately printed. NLS: NF.1347.d.9. I have examined this book, but have to report that no letters of Maxwell are printed therein. W.T.J.]

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Stokes, Sir George Gabriel; Larmor, Sir Joseph (ed.). *Memoir and scientific correspondence of Sir George Gabriel Stokes.* Sir Joseph Larmor (ed.). London, 1907. 2 vols. NLS: S.154.b. ECL: QA 29 S87 [32022]. BL: 010827.f.2. Letters of James Clerk Maxwell: 1-45.

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Whittaker, Sir Edmund Taylor. *A history of the theories of aether and electricity from the age of Descartes to the close of the nineteenth century.* Dublin, 1910. EUL: .5371 Whi. BL: 2322.f.20. xv,[1],475,[1] pp. 21.6 × 13.6 cm. (Dublin University Press Series.) James Clerk Maxwell: 52, 65, 92, 102, 167, 190, 215, 237, 250, 263, 268-313, 321, 333, 337, 348, 365, 397, 411, 413, 460.

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Maxwell, James Clerk. *Matter and motion*. ..., 1920. Mitchell Lib.: 531. BL: 08709.a.49. [First edition was printed in 1873.]

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Rey, A. 'La contribution que les divers pays ont donnée aux progrès de la physique. 1. Physique Newtonnienne et physique de Fresnel, Maxwell, Clausius.' *Scientia*, 1.5.1921, XXIX, 345-360.

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Planck, Max. 'James Clerk Maxwell in seiner Bedeutung für die theoretische Physik in Deutschland.' *Naturwissen.*, 1931, XIX, 889-894.

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Sir Joseph John Thomson. 'James Clerk Maxwell.' 1-44.

Max Planck. 'Maxwell's influence on theoretical physics in Germany. 45-65.

Albert Einstein. 'Maxwell's influence on the development of the conception of physical reality.' 66-73.

Sir Joseph Larmor. 'The scientific environment of Clerk Maxwell.' 74-90.

Sir James Jeans. 'James Clerk Maxwell's method.' 91-108.

William Garnett. 'Maxwell's laboratory.' 109-115.

Sir Ambrose Fleming. 'Some memories.' 116-124.

Sir Oliver Lodge. 'Clerk Maxwell and wireless telegraphy.' 125-129.

Sir Richard Tetley Glazebrook. 'Early days at the Cavendish Laboratory.' 130-141.

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- Lenard, Philipp; Hatfield, H. Stafford (translator). [Grosse Naturforscher.] *Great men of science: a history of scientific progress; translated from second German edition by H. Stafford Hatfield*. London, 1933. NLS: R.176.i. BL: 08710.cc.15; 08710.cc.65. James Clerk Maxwell: 339-343, with illus. opp p. 346. Reissued 1938 and 1950.

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- Harig, G. ['James Clerk Maxwell. Versuch einer wissenschaftlichen Biographie.'] [In Russian with German summary.] *Ark. Ist. Nauk Tekh.*, 1935, VI, 33-61.

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- Thomson, Sir Joseph John. *Recollections and reflections*. London, 1936.

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