

Hicks's Publications

'CW' stands for those included in collected works.

* may be the most famous papers on dynamics of vortex rings.

1. CW1 "Geometrical investigation of some properties of quadric surfaces" [The Messenger of Mathematics, New Series, Nos.32 & 33, 1873]
2. CW2 "Quaternion investigations on strains and fluid motion" [Quarterly Journal of Pure and Applied Mathematics, No.55, 1876]
3. CW3 "Practical method of modelling the wave-surface" [The Messenger of Mathematics, Vol.5, 1876]
4. CW4 "Notes on Pedals" [The Messenger of Mathematics, Vol.6, 1877]
5. CW5 "On some effects of dissociation on the physical properties of gases. Part I" [Philosophical Magazine, June 1877]
6. CW6 "On some effects of dissociation on the physical properties of gases. Part II" [Philosophical Magazine, September 1877]
7. CW7 "On velocity and electric potentials between parallel planes" [Quarterly Journal of Pure and Applied Mathematics, No.59, 1878]
8. CW8 "Fluid motions in a rotating semicircular cylinder" [The Messenger of Mathematics, Vol.8, 1879]
9. CW9 "On the motion of two cylinders in a fluid" W.M. Hicks, Quart. J. Pure and Appl. Math, No.62, (1879)
10. CW10 "[On] the Motion of Two Spheres in a Fluid. [Abstract]" W.M. Hicks Proceedings of the Royal Society of London, 29, No.197(1879),162-164.
11. "On the Motion of Two Spheres in a Fluid" W.M. Hicks Philosophical Transactions of the Royal Society of London, 171(1880), 455-492
12. CW11 "On the problem of two pulsating spheres in a fluid. Part I" [Proceedings of the Cambridge Philosophical Society, Vol.III, Pt.VII]
13. CW12 "On the problem of two pulsating spheres in a fluid. Part II" [Proceedings of the Cambridge Philosophical Society, Vol.IV, Pt.I]
14. CW13 "On the condition of steady motion of two cylinders in a fluid"
15. CW14 "On functional images in ellipses" [Quarterly Journal of Pure and Applied Mathematics, Vol.XVII, No.68, 1876]
16. CW15 "On Toroidal Functions. [Abstract]" W.M. Hicks Proceedings of the Royal Society of London, 31, No.211 (1880-1881), 504-505.

17. "On Toroidal Functions" W.M. Hicks Philosophical Transactions of the Royal Society of London, 172(1881), 609-652
18. CW16 "Report on recent progress in hydrodynamics - Part I " W.M. Hicks, Rep. Brit. Assn. Adv. Science (1881).
19. CW17 "Report on recent progress in hydrodynamics - Part II " W.M. Hicks, Rep. Brit. Assn. Adv. Science (1882).
20. CW18 "On the number of systems of plane equipotential lines of the second degree, symmetrical with respect to a fixed line" [The Messenger of Mathematics, XI, Nos.5, September, 1881]
21. CW19 "On the electrical resistance of a conducting sphere with given electrodes" [The Messenger of Mathematics, Vol.11, 1881]
22. CW20 "On the motion of a mass of liquid under its own attraction when the initial form is an ellipsoid" [Proceedings of the Cambridge Philosophical Society, Vol.IV, Pt.VI]
23. CW21 "On the Steady Motion of a Hollow Vortex. [Abstract]" W.M. Hicks Proceedings of the Royal Society of London, 35,No.226(1883), 304-308.
24. *"On the Steady Motion and Small Vibrations of a Hollow Vortex" W.M. Hicks Philosophical Transactions of the Royal Society of London, 175(1884), 161-195.
25. "Researches on the Theory of Vortex Rings. II. [Abstract]" W.M. Hicks Proceedings of the Royal Society of London. Series A, 38(1884-1885), 447-449.
26. *"Researches on the Theory of Vortex Rings. Part II" W.M. Hicks Philosophical Transactions of the Royal Society of London, 176(1885), 725-780
27. "Researches in Vortex Motion. Part III. On Spiral or Gyrostatic Vortex Aggregates. [Abstract]" W.M. Hicks Proceedings of the Royal Society of London, 62(1897-1898), 332-338.
28. *"Researches in Vortex Motion. Part III: On Spiral or Gyrostatic Vortex Aggregates" W.M. Hicks Philosophical Transactions of the Royal Society of London. Series A, 192(1899), 33-99.
29. (book) "On the Michelson-Morley Experiment Relating to the Drift of the Aether" W.M. Hicks (1902)
30. "A Critical Study of Spectral Series. Part I: The Alkalies H and He" W.M. Hicks Philosophical Transactions of the Royal Society of London. Series A, 210(1911), 57-111.
31. "A Critical Study of Spectral Series. Part II: The p and s Sequences and the Atomic Volume Term" W.M. Hicks Philosophical Transactions of the Royal Society of London. Series A, 212(1913), 33-73.

32. "On the Effect of the Magneton in the Scattering of α - Rays" W.M. Hicks Proceedings of the Royal Society of London. Series A, 90, No. 619 (1914), 356-364.
33. "A Critical Study of Spectral Series. Part III: The Atomic Weight Term and Its Import in the Constitution of Spectra" W.M. Hicks Philosophical Transactions of the Royal Society of London. Series A, 213(1914), 323-420.
34. "The Orbits of a Charged Particle Round an Electric and Magnetic Nucleus" W.M. Hicks Proceedings of the Royal Society of London. Series A, 91(1915), 273-290.
35. "On the Enhanced Series of Lines in Spectra of the Alkaline Earths" W.M. Hicks Proceedings of the Royal Society of London. Series A, 91(1915), 451-463.
36. "On the Relation Between Lines of the same Spectral Series" W.M. Hicks The Astrophysical Journal (1916)
37. "A Critical Study of Spectral Series. Part IV: The Structure of Spark Spectra" W.M. Hicks Philosophical Transactions of the Royal Society of London. Series A, 217(1918), 361-410.
38. "A Critical Study of Spectral Series. Part V: The Spectra of the Monatomic Gases" W.M. Hicks Philosophical Transactions of the Royal Society of London. Series A, 220(1920), 335-468.
39. "On the Mutual Threading of Vortex Rings" W.M. Hicks Proceedings of the Royal Society of London. Series A, 102(1922), 111-113
40. (book) "A Treatise on the Analysis of Spectra: Based on an Essay to which the Adams Prize was Awarded" WM Hicks (1922), The University press