

CONTENTS

ART.	PAGE
1. Planimetry on a Moving Plane	1
[<i>Nature</i> , Oct. 27, 1881.]	
2. On Critical or "Apparently Neutral" Equilibrium	2
[<i>Proc. Camb. Phil. Soc.</i> Vol. iv. Pt. vi.]	
3. Electromagnetic Induction in Conducting Sheets and Solid Bodies	8
[<i>Philosophical Magazine</i> , Jan. 1884.]	
Appendix. Electromagnetic Induction in Spheres	29
[<i>Philosophical Magazine</i> , April 1884.]	
4. On Least Action as the Fundamental Formulation in Dynamics and Physics	31
[<i>Proc. London Math. Soc.</i> Vol. xv. (1884) pp. 158-184.]	
Appendix. The Principle of Least Action	59
[Addition to Maxwell's <i>Matter and Motion</i> , ed. 2, 1920.]	
5. On Possible Systems of Jointed Wicker-work, and their Degrees of Internal Freedom	71
[<i>Proc. Camb. Phil. Soc.</i> Vol. v. (1884) pp. 161-167.]	
6. On Hydrokinetic Symmetry	77
[<i>Quart. Journ. Pure and Applied Math.</i> Vol. xx. (1884) pp. 261-266.]	
7. On the Theory of a System of Forces Equilibrating an Astatic Solid	82
[<i>Messenger of Mathematics</i> , Aug. 1884, pp. 61-73.]	
8. On the Extension of Ivory's and Jacobi's Distance-corre- spondences for Quadric Surfaces	93
[<i>Proc. London Math. Soc.</i> Vol. xvi. (1885) pp. 189-200.]	
9. On the Flow of Electricity in a System of Linear Conductors .	104
[<i>Proc. London Math. Soc.</i> Vol. xvi. (1885) pp. 262-272.]	
10. Some Applications of Generalized Space-coordinates to Dif- ferential Analysis: Potentials and Isotropic Elasticity	113
[<i>Camb. Phil. Trans.</i> Vol. xiv. (1885) pp. 121-137.]	
11. On the Molecular Theory of Galvanic Polarization	133
[<i>Philosophical Magazine</i> , Nov. 1885, pp. 422-435.]	
12. On the Form and Position of the Horopter	146
[<i>Proc. Camb. Phil. Soc.</i> Vol. vi. (1887) pp. 60-65.]	
13. General Theory of Dupin's Space-extension of the Focal Properties of Conic Sections	152
[<i>Proc. London Math. Soc.</i> Vol. xviii. (1887) pp. 363-369.]	
14. On Direct Principles in the Theory of Partial Differential Equations	158
[<i>Proc. Roy. Soc.</i> Vol. 43 (1887), p. 176.]	

X	<i>Contents</i>	PAGE
ART.		
15.	The Transformation of Multiple Surface Integrals into Multiple Line Integrals [<i>Messenger of Mathematics</i> , June 1887, pp. 23–30.]	160
16.	Electromagnetic and other Images in Spheres and Planes [<i>Quarterly Journ. of Pure and Applied Mathematics</i> , 1888, pp. 1–8.]	167
17.	On Professor Miller's Observations of Supernumerary Rainbows [<i>Proc. Camb. Phil. Soc.</i> Vol. vi. (1888) pp. 280–286.]	174
18.	The Characteristics of an Asymmetric Optical Combination [<i>Proc. London Math. Soc.</i> Vol. xx. (1889) pp. 181–194.]	181
19.	A Scheme of the Simultaneous Motions of a System of Rigidly Connected Points, and the Curvatures of their Trajectories [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1890) pp. 36–42.]	194
20.	The Influence of Electrification on Ripples [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1890) pp. 69–71.]	200
21.	On the Curvature of Prismatic Images, and on Amici's Prism Telescope [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1890) pp. 85–87.]	203
22.	Rotatory Polarization, Illustrated by the Vibrations of a Gyrostatically Loaded Chain [<i>Proc. London Math. Soc.</i> Vol. xxi. (1890) pp. 423–432.]	205
23.	The Laws of the Diffraction along Caustic Surfaces [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1891) pp. 131–137.]	214
24.	The Most General Type of Electrical Waves in Dielectric Media that is consistent with Ascertained Laws [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1891) pp. 165–166.]	220
25.	A Mechanical Representation of a Vibrating Electrical System, and its Radiation [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1891) pp. 166–176.]	221
26.	On a Generalized Theory of Electrodynamics [<i>Proc. Roy. Soc.</i> Vol. xlix. (1891) pp. 521–536.]	232
27.	The Equations of Propagation of Disturbances in Gyrostatically Loaded Media, and the Circular Polarization of Light [<i>Proc. London Math. Soc.</i> Vol. xxiii. (1891) pp. 127–135.]	238
28.	The Influence of Flaws and Air-cavities on the Strength of Materials [<i>Philosophical Magazine</i> , Jan. 1892, pp. 70–78.]	256
29.	The Simplest Specification of a given Optical Path, and the Observations required to determine it [<i>Proc. London Math. Soc.</i> Vol. xxiii. (1892) pp. 165–172.]	264
30.	The Applications of the Spherometer to Surfaces which are not Spherical [<i>Proc. Camb. Phil. Soc.</i> Vol. vii. (1892) pp. 327–329.]	271

ART.	<i>Contents</i>	xi PAGE
31.	On the Theory of Electrodynamics, as affected by the Nature of the Mechanical Stresses in Excited Dielectrics [<i>Proc. Roy. Soc.</i> Vol. LII. (1892) pp. 55–66.]	274
32.	The Dioptrics of Gratings [<i>Proc. London Math. Soc.</i> Vol. XXIV. (1893) pp. 266–272.]	288
33.	The Singularities of the Optical Wave-surface, Electrical Stability, and Magnetic Rotatory Polarization [<i>Proc. London Math. Soc.</i> Vol. XXIV. (1893) pp. 272–290.]	292
34.	The Action of Magnetism on Light; with a Critical Correlation of the Various Theories of Light-propagation [<i>Report of the British Association</i> (1893), pp. 335–372.]	310
35.	Electric Vibrations in Condensing Dielectric Systems [<i>Proc. London Math. Soc.</i> Vol. XXVI. (1894) pp. 119–144.]	356
36.	The Significance of Wiener's Localization of the Photographic Action of Stationary Light-waves [<i>Philosophical Magazine</i> (Jan. 1895), pp. 97–106.]	379
37.	A Dynamical Theory of the Electric and Luminiferous Medium. (<i>Abstract</i>) [<i>Proceedings of the Royal Society</i> , Vol. LIV. (1893) pp. 438–461.]	389
38.	A Dynamical Theory of the Electric and Luminiferous Medium. Part I [<i>Phil. Trans. Roy. Soc.</i> Vol. CLXXXV. (1894), pp. 719–822.]	414
39.	A Dynamical Theory of the Electric and Luminiferous Medium. Part II: Theory of Electrons. (<i>Abstract</i>) [<i>Proceedings of the Royal Society</i> , Vol. LVIII. (1895) pp. 222–228.]	536
40.	A Dynamical Theory of the Electric and Luminiferous Medium. Part II: Theory of Electrons [<i>Phil. Trans. Roy. Soc.</i> Vol. CLXXXVI. (1895) pp. 695–743.]	543
41.	On Graphical Methods in Geometrical Optics [<i>Proc. Camb. Phil. Soc.</i> Vol. VIII. (1895) pp. 307–313.]	598
42.	On the Absolute Minimum of Optical Deviation by a Prism [<i>Proc. Camb. Phil. Soc.</i> Vol. IX. (1896) pp. 108–110.]	605
43.	On the Geometrical Method [Presidential Address to the Society for the Improvement of Geometrical Teaching, 1896.]	607
44.	On the Theory of Moving Electrons and Electric Charges [<i>Philosophical Magazine</i> , August 1896.]	615
45.	On the Theory of Osmotic Pressure [<i>Proc. Camb. Phil. Soc.</i> Vol. IX. (1897) pp. 240–242.]	619
46.	The Influence of a Magnetic Field on Radiation Frequency [<i>Proc. Roy. Soc.</i> Vol. LX. (1897) p. 514.]	622
47.	A Dynamical Theory of the Electric and Luminiferous Medium. Part III: Relations with Material Media. (<i>Abstract</i>) [<i>Proc. Roy. Soc.</i> Vol. LXI. (1897) pp. 272–285.]	625

	PAGE
Appendix (1927):	
(i) Historical Note on Hamiltonian Action	640
(ii) On Relativity in Relation to Convection	644
(iii) Do Accelerated and Retarded Electrons emit Radiation?	650
(iv) Minimal Action and Electrodynamical Potentials	653
(v) Maxwell's Stress and Radiation Pressure	655
(vi) Relations between Electric Unitary Systems	658
(vii) Repulsion of Electrons, Ions and Molecules by Radiation	661
(viii) The Residues of Atomic Mass regarded as Inertia of Aggregation	669
(ix) On Gyromagnetics: and on Electrons and Atoms having Helicoidal Inertia	675