TABLE OF CONTENTS.

		PAGE
I.	*On the Description of Oval Curves and those having a plurality of Foci; with remarks by Professor Forbes*	1
II.	*On the Theory of Rolling Curves*	4
III.	*On the Equilibrium of Elastic Solids*	30
	Solutions of Problems	74
IV.	*On the Transformation of Surfaces by Bending*	80
V.	*On a particular case of the descent of a heavy body in a resisting medium*	115
VI.	*On the Theory of Colours in relation to Colour-Blindness*	119
VII.	*Experiments on Colour as perceived by the Eye, with remarks on Colour-Blindness*	126
VIII.	*On Faraday's Lines of Force*	155
IX.	*Description of a New Form of the Platometer, an Instrument for measuring the areas of Plane Figures drawn on paper*	230
X.	*On the elementary theory of Optical Instruments*	238
XI.	*On a method of drawing the Theoretical Forms of Faraday's Lines of Force without calculation*	241
XII.	*On the unequal sensibility of the Foramen Centrale to Light of different Colours*	242
XIII.	*On the Theory of Compound Colours with reference to mixtures of Blue and Yellow Light*	243
XIV.	*On an instrument to illustrate Poinsot's Theory of Rotation*	246
XV.	*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*	248
XVI.	*Account of Experiments on the Perception of Colour*	263
XVII.	*On the general laws of Optical Instruments*	271
XVIII.	*On Theories of the Constitution of Saturn's Rings*	286
XIX.	*On the stability of the motion of Saturn's Rings*	288
XX.	*Illustrations of the Dynamical Theory of Gases*	377
XXI.	*On the Theory of Compound Colours and the Relations of the Colours of the Spectrum*	410
XXII.	*On the Theory of Three Primary Colours*	445
XXIII.	*On Physical Lines of Force*	451
XXIV.	*On Reciprocal Figures and Diagrams of Forces*	514
XXV.	*A Dynamical Theory of the Electromagnetic Field*	526
XXVI.	*On the Calculation of the Equilibrium and Stiffness of Frames*	598