

CONTENTS OF VOL. I.

	PAGE
Memoir	i
Memorandum on Engineering Education	lxiii
(Written for a Cambridge University Syndicate in 1890.)	
1. Group-Flashing Lights	1
(Pamphlet first published in October 1874.)	
2. The Electric Lighthouses of Macquarie and of Tino	7
(From the <i>Proceedings of the Institution of Civil Engineers</i> , Vol. LXXXVII. Session 1886—87, Part I.)	
3. On Electric Lighting	32
(From the <i>Proceedings of the Institution of Mechanical Engineers</i> , April 25th, 1879.) (First Paper.)	
4. On Electric Lighting	47
(From the <i>Proceedings of the Institution of Mechanical Engineers</i> , pp. 266—274. April 23rd, 1880.) (Second Paper.)	
5. Some points in Electric Lighting	57
(A Lecture delivered at the Institution of Civil Engineers, April 5th, 1883.)	
6. Dynamo-Electric Machinery	84
(From the <i>Philosophical Transactions of the Royal Society</i> , Part I., 1886.)	
7. Dynamo-Electric Machinery	122
(From the <i>Proceedings of the Royal Society</i> , Vol. LI., 1892.)	
8. On the Theory of Alternating Currents, particularly in reference to Two Alternate-Current Machines connected to the same Circuit	133
(From the <i>Proceedings of the Institution of Electrical Engineers</i> , pp. 3—21, November 13th, 1884.)	

	PAGE
9. Note on the Theory of the Alternate Current Dynamo	152
(From the <i>Proceedings of the Royal Society</i> , Vol. XLII., pp. 167—170.)	
10. Alternate Current Dynamo-electric Machines	156
(From the <i>Philosophical Transactions of the Royal Society</i> , 1896, pp. 229—252.)	
11. An Unnoticed Danger in certain Apparatus for Distribution of Electricity	184
(From the <i>Philosophical Magazine</i> , September, 1885.)	
12. Induction Coils or Transformers	188
(From the <i>Proceedings of the Royal Society</i> , February, 1887.)	
13. Report to the Westinghouse Company of the test of two 6,500-watt Westinghouse Transformers. May 31st, 1892	192
14. Presidential Address to the Institution of Electrical Engineers, January 9th, 1890	212
(Magnetism.)	
15. Inaugural Address, Institution of Electrical Engineers, January 16th, 1896	236
16. Presidential Address to the Junior Engineering Society*, November 4th, 1892, On the Cost of Electric Supply	254
(From the <i>Transactions of the Junior Engineering Society</i> , Vol. III., Part I., pp. 1—14.)	
17. Relation of Mathematics to Engineering	269
(From the <i>Proceedings of the Institution of Civil Engineers</i> , Vol. CXVIII., Session 1893—1894, Part IV. “James Forrest” Lecture.)	

* Now the Institution of Junior Engineers.

PORTRAITS.

Dr Hopkinson at the age of forty-eight	<i>Frontispiece</i>
Dr Hopkinson at the age of about twenty-three	<i>To face page xxx</i>