

CONTENTS

INTRODUCTION

	PAGE
The three divisions of Electromagnetism	1

ELECTROSTATICS AND CURRENT ELECTRICITY

CHAP.		
I.	Physical Principles	5
II.	The Electrostatic Field of Force	24
III.	Conductors and Condensers	66
IV.	Systems of Conductors	88
V.	Dielectrics and Inductive Capacity	115
VI.	The State of the Medium in the Electrostatic Field.	140
VII.	General Analytical Theorems	156
VIII.	Methods for the Solution of Special Problems	185
IX.	Steady Currents in Linear Conductors	300
X.	Steady Currents in Continuous Media	341

MAGNETISM

XI.	Permanent Magnetism	364
XII.	Induced Magnetism	408

ELECTROMAGNETISM

XIII.	The Magnetic Field produced by Electric Currents	425
XIV.	Induction of Currents in Linear Circuits	452
XV.	Induction of Currents in Continuous Media	473
XVI.	Dynamical Theory of Currents.	485
XVII.	Displacement Currents and Electromagnetic Waves	510
XVIII.	The Electromagnetic Theory of Light	532
XIX.	The Motion of Electrons	559
XX.	The Theory of Relativity	593
XXI.	The Electrical Structure of Matter	629
INDEX	647