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The first edition of this textbook (1981) is cited in BCL3. The second includes: introduction to the Dirac Delta Function, the Helmholtz Theorem, and a brief treatment of waveguides. New problems have been added. No bibliography. Annotation copyright Book News, Inc. Portland, Or. In the 1950s, the distinguished theoretical physicist Wolfgang Pauli delivered a landmark series of lectures at the Swiss Federal Institute of Technology in Zurich. His comprehensive coverage of the fundamentals of classical and modern physics was painstakingly recorded not only by his students but also by a number of collaborators, whose carefully edited transcriptions resulted in a remarkable six-volume work. This volume, the first of the series, presents a brief survey of the historical development and then-current problems of electrodynamics, followed by sections on electrostatics and magnetostatics, steady-state currents, quasi-static fields, and rapidly varying fields. As does each book in the series, Volume 1 includes an index and a wealth of helpful figures, and can be read independently of the series by those who wish to focus on a particular topic. Originally published in 1973, the text remains entirely relevant thanks to Pauli's manner of presentation. As Victor F. Weisskopf notes in the Foreword to the series, Pauli's style is "commensurate to the greatness of its subject in its clarity and impact. Pauli's lectures show how physical ideas can be presented clearly and in good mathematical form, without being hidden in formalistic expertise." Alone or as part of the complete set, this volume represents a peerless resource invaluable to individuals, libraries, and other institutions. This book is for high school and college teachers who want to know how they can use the history of mathematics as a pedagogical tool to help their students construct their own knowledge of mathematics. Often, a historical development of a particular topic is the best way to present a mathematical topic, but teachers may not have the time to do the research needed to present the material. This book provides its readers with historical ideas and insights which can be immediately applied in the classroom. The book is divided into two sections: the first on the use of history in high school mathematics, and the second on its use in university mathematics. The articles are diverse, covering fields such as trigonometry, mathematical modeling, calculus, linear algebra, vector analysis, and celestial mechanics. Also included are articles of a somewhat philosophical nature, which give general ideas on why history should be used in teaching and how it can be used in various special kinds of courses. Each article contains a bibliography to guide the reader to further reading on the subject. Essential Advanced Physics is a series comprising four parts: Classical Mechanics, Classical Electrodynamics, Quantum Mechanics and Statistical Mechanics. Each part consists of two volumes, Lecture Notes and Problems with Solutions, further supplemented by an additional collection of test problems and solutions available to qualifying university instructors. This volume, Classical Electrodynamics: Problems with Solutions contains detailed model solutions to the exercise problems formulated in the companion Lecture Notes volume. In many cases, the solutions include result discussions that enhance the lecture material. For reader's convenience, the problem assignments are reproduced in this volume. An Introduction to Classical Electrodynamics covers the topics of Electricity, Magnetism, and Optics at the upper-level undergraduate level in physics or electrical engineering. This book tells the story of the historical development of electrodynamics, at the same time as introducing students to electrodynamics with vector calculus. This is the best treatment of the historical development of electricity, magnetism and electrodynamics I have ever seen. The breadth of the authors' knowledge, together with their ability to summarize historical results in exceptionally clear terms, is wonderful. Developing electromagnetism historically makes many concepts easier to understand . --- By an anonymous reviewer who is a senior professor at a major college or university. Table of Contents Part I: Electricity Chapter 1 Charge Chapter 2 The Electrostatic Force Chapter 3 Electrical Potential Energy Chapter 4 Gauss's Law Chapter 5 The Equations of Laplace and Poisson PART II: Magnetism Chapter 6 Permanent Magnets Chapter 7 The Vector Potential and the Curl Chapter 8 Electromagnetism Chapter 9 Faraday's Law of Induction Chapter 10 The Electron Chapter 11 Galilean Relativity in Electrodynamics Chapter 12 Superconductors and Plasmas Part III: Light Chapter 13 Transmission Lines Chapter 14 Light in an Optical Medium Chapter 15 Light in Free Space Chapter 16 Sources of Electromagnetic Radiation Chapter 17 Special Relativity Chapter 18 The Photon https://maricourt.press/keohane_foy ISBN: 978-1-949942-00-2 728 pages, 650 illustrations, \$30 Maricourt Academic Press: Textbooks with Content and Context A good popular science book tells a story of discovery. A good academic treatise introduces new ideas with convincing evidence. 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Due to its age, it may contain imperfections such as marks, notations, marginalia and flawed pages. Because we believe this work is culturally important, we have made it available as part of our commitment for protecting, preserving, and promoting the world's literature in affordable, high quality, modern editions that are true to the original work. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. 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keeping this knowledge alive and relevant. A revision of the defining book covering the physics and classical mathematics necessary to understand electromagnetic fields in materials and at surfaces and interfaces. The third edition has been revised to address the changes in emphasis and applications that have occurred in the past twenty years. For junior/senior-level electricity and magnetism courses. This book is known for its clear, concise and accessible coverage of standard topics in a logical and pedagogically sound order. The Third Edition features a clear, accessible treatment of the fundamentals of electromagnetic theory, providing a sound platform for the exploration of related applications (ac circuits, antennas, transmission lines, plasmas, optics, etc.). Its lean and focused approach employs numerous examples and problems. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. As the essential companion book to Classical Mechanics and Electrodynamics (World Scientific, 2018), a textbook which aims to provide a general introduction to classical theoretical physics, in the fields of mechanics, relativity and electromagnetism, this book provides worked solutions to the exercises in Classical Mechanics and Electrodynamics. Detailed explanations are laid out to aid the reader in advancing their understanding of the concepts and applications expounded in the textbook. Throughout the nineteenth century, practitioners of science, writers of fiction and journalists wrote about electricity in ways that defied epistemological and disciplinary boundaries. Revealing electricity as a site for intense and imaginative Victorian speculation, Stella Pratt-Smith traces the synthesis of nineteenth-century electricity made possible by the powerful combination of science, literature and the popular imagination. With electricity resisting clear description, even by those such as Michael Faraday and James Clerk Maxwell who knew it best, Pratt-Smith argues that electricity was both metaphorically suggestive and open to imaginative speculation. Her book engages with Victorian scientific texts, popular and specialist periodicals and the work of leading midcentury novelists, including Charles Dickens, Charlotte Bronte, Emily Bronte, William Makepeace Thackeray and Wilkie Collins. Examining the work of William Harrison Ainsworth and Edward Bulwer-Lytton, Pratt-Smith explores how Victorian novelists attributed magical qualities to electricity, imbuing it with both the romance of the past and the thrill of the future. She concludes with a case study of Benjamin Lumley's *Another World*, which presents an enticing fantasy of electricity's potential based on contemporary developments. Ultimately, her book contends that writing and reading about electricity appropriated and expanded its imaginative scope, transformed its factual origins and applications and contravened the bounds of literary genres and disciplinary constraints.

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