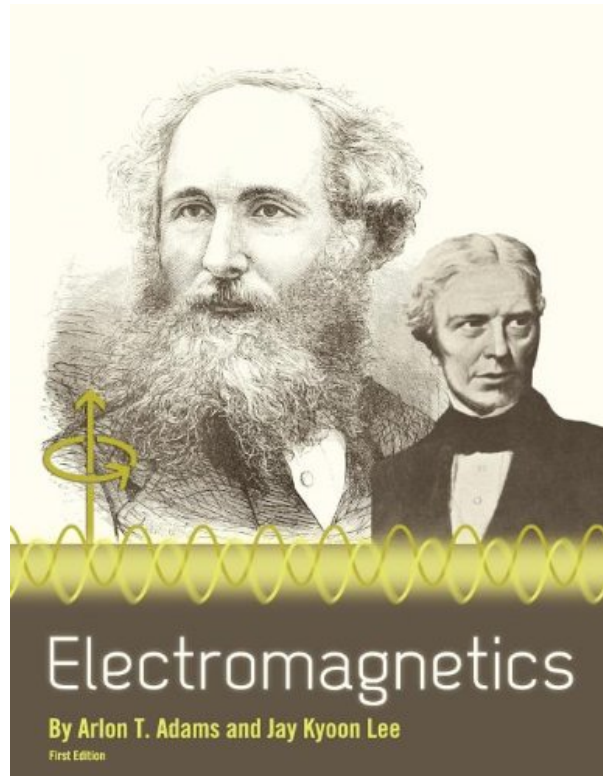
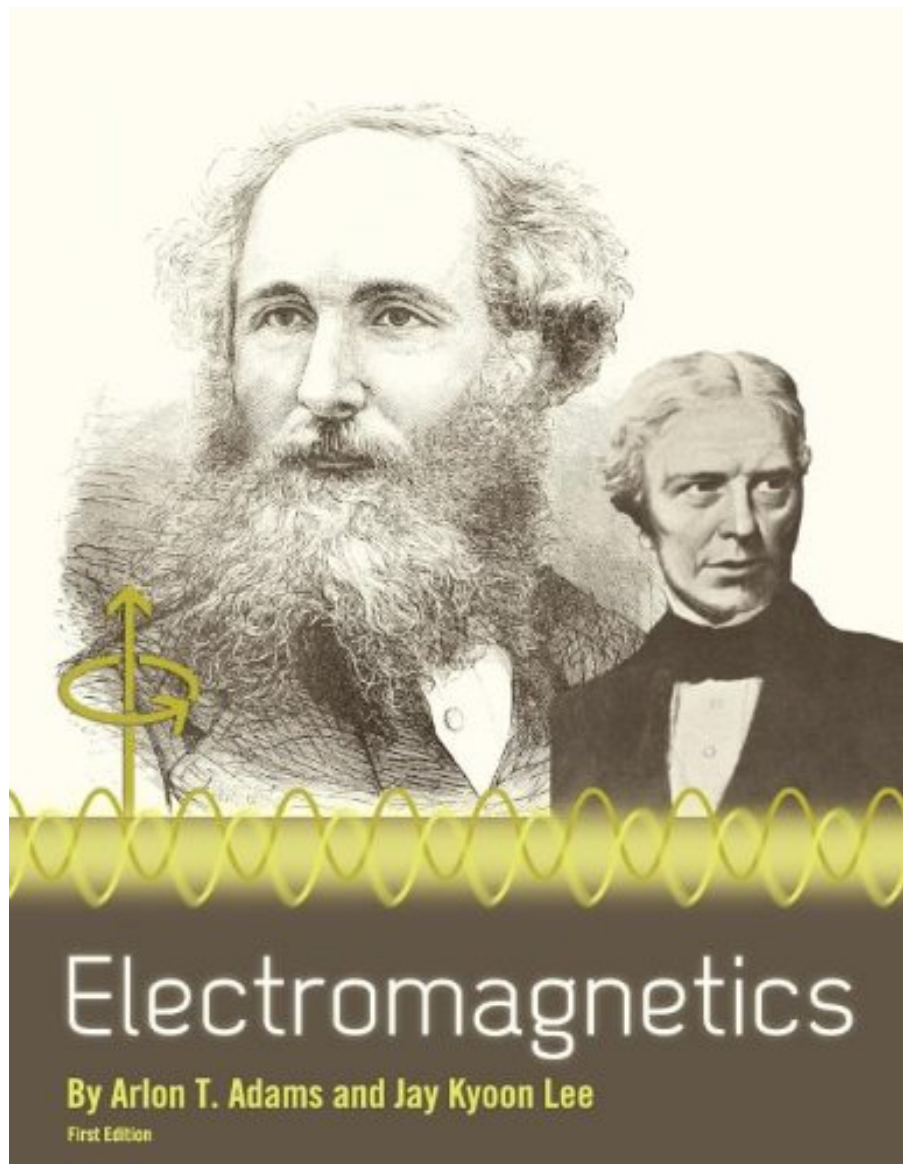


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"Electromagnetics is by no means an easy subject to grasp. Teaching materials in the discipline must be carefully prepared and organized to help guide students to success. Not only should such materials offer comprehensive mathematics and strong physical insights, they should also present alternative ways of viewing and formulating problems. Electromagnetics is wonderfully unique in its approach. With thorough examples, summary tables, figures, alternative formulations, and homework problems, this volume takes the electromagnetics student step-by-step through the intricacies of the subject, and builds up comprehension and application gradually. Examples are used to delineate a basic approach and to guide students from start to solution through complex problems. Special cases are considered to draw analogies, and to offer physical insights and interpretations. Finally, the book's large problem set enables instructors to teach the course for several years without repeating problem assignments.

During their many years of teaching electromagnetics, Adams and Lee became interested in the discipline's historical aspects and found it useful to incorporate stories of the basic discoveries into the classroom. This book explores such rarely covered aspects of the subject. Included is a fascinating account of what Michael Faraday did when unexpected events occurred. With its lively description, this book helps students to imagine themselves taking the same steps as Faraday.

Jay Kyoon Lee (Ph.D., Massachusetts Institute of Technology) is a Professor of Electrical Engineering and Computer Science at Syracuse University, where he teaches Electromagnetics, among other courses. His current research interests are electromagnetic theory, microwave remote sensing, waves in anisotropic media, antennas and propagation. He was a Research Fellow at Naval Air Development Center, Rome Air Development Center and Naval Research Laboratory and was an Invited Visiting Professor at Seoul National University in Seoul, Korea. He has received the Eta Kappa Nu Outstanding Undergraduate Teacher Award (1999), the IEEE Third Millennium Medal (2000), and the College Educator of the Year Award from the Technology Alliance of Central New York (2002).

Arlon T. Adams (Ph.D., University of Michigan) was a professor emeritus in the Department of Electrical and Computer Engineering at Syracuse University, where he taught and conducted research in electromagnetics for many years, focusing on antennas and microwaves. He served as electronics officer in the U. S. Navy and worked as an engineer for the Sperry Gyroscope Company. He was a Life Fellow of the IEEE from which institution he received eight prize paper and achievement awards. He was a Fulbright Scientist in Yugoslavia, a visiting scholar at Berkeley, and was general chairman of the 1988 IEEE Antennas and Propagation Society /URSI International Symposium at Syracuse, New York."

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3 of 3 people found the following review helpful.

Cover to Cover

By eV

I am sincere in saying that I very much enjoyed reading this textbook from cover to cover. I believe that this textbook is best used as an undergraduate text and/or perhaps a one semester course taught at the freshman graduate level in an electrical engineering department. Dr. Lee and Dr. Adams have done a wonderful job of explaining the intimate tie between electric and magnetic fields in an extremely digestible manner.

I believe that this textbook is also the most well suited textbook on the "fundamentals of electromagnetism" that I have found (comparing with Wangsness, Griffiths, Ulbay which I have also read cover to cover) which could be readily used as a self-study text. There are a plethora of examples which aid in solving the problems at the end of each chapter.

Another aspect of this text which I liked very much was that it follows an inductive approach rather than a deductive (historical) approach, and YET the text is filled with very interesting historical details and short biographies of scientists who had a significant contribution to the field of electromagnetism.

There are very few technical errors in this text.

One error which is worth noting, because it appears in so many electromagnetism textbooks is that the potential gauge transformation should be credited to "Ludvig Lorenz" NOT "Hendrik Lorentz"!! Though the Lorenz gauge is in fact Lorentz invariant, it should be recognized that these are two entirely different concepts from two entirely different people!

This textbook has very clear chapters on the following topics, along with many solved examples and intriguing exercises:

1. Vector Analysis
2. Electrostatic Fields and Potentials
3. Dielectrics
4. Special Solution Techniques
5. Steady Currents and Conductive Materials
6. Magnetostatic Fields
7. Magnetostatic Fields in Matter
8. Time-Varying Fields: Faraday's Law and Maxwell's Equations
9. Electromagnetic Waves
10. Reflection and Transmission of Waves
11. Waveguides, Resonators, and Transmission Lines
12. Radiation and Antennas

1 of 1 people found the following review helpful.

The fundamental laws of nature governing electric and magnetic fields are explained in a very easy to digest way

By Walid Dyab

This book has succeeded to provide the necessary foundation for electrical engineers to understand electromagnetics. The early chapters on electrostatics and magnetostatics are unique. The fundamental laws

of nature governing electric and magnetic fields are explained in a very easy to digest way.

The part I like the most is how the concepts of polarization and magnetization of dielectric and magnetic materials are introduced. Those concepts are put in a way which paves the road for more advanced courses in the field without any self contradiction that might arise. This is something that is far from being easy but the authors in this book has really succeeded in doing so.

The formatting of the book is very comforting for the eye and the figures are so clear despite being monochromatic. This is a very important feature that I like to have in a text book as compared to a reference.

The summaries provided in the tables make the necessary information very handy.

The problems provided at the end of each chapter are carefully selected with a gradual level of difficulty.

This is one of the best features of this book.

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