

Engineering Electromagnetics

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Fundamentals of Engineering Electromagnetics Rajeev Bansal 2018-10-08

Electromagnetics is too important in too many fields for knowledge to be gathered on the fly. A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject. Fundamentals of Engineering Electromagnetics provides such an understanding, distilling the most important theoretical aspects and applying this knowledge to the formulation and solution of real engineering problems. Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics, this book supplies a focused treatment that is ideal for specialists in areas such as medicine, communications, and remote sensing who have a need to understand and apply electromagnetic principles, but who are unfamiliar with the field. Here is what the critics have to say about the original work "...accompanied with practical engineering applications and useful illustrations, as well as a good selection of references ... those chapters that are devoted to areas that I am less familiar with, but currently have a need to address, have certainly been valuable to me. This book will therefore provide a useful resource for many engineers working in applied electromagnetics, particularly those in the early stages of their careers." -Alastair R. Ruddle, The IEE Online "...a tour of practical electromagnetics written by industry experts ... provides an excellent tour of the practical side of electromagnetics ... a useful reference for a wide range of electromagnetics problems ... a very useful and well-written compendium..." -Alfy Riddle, IEEE Microwave Magazine Fundamentals of Engineering Electromagnetics lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics.

Electromagnetics Engineering Handbook Paul R. P. Hoole 2013 Electromagnetic fields, both static and dynamic, form the foundational basis of all electrical and electronic engineering devices and systems. Aimed at undergraduate students, university teachers, design and consultant engineers and researchers this book presents an in-depth, simple and comprehensive reference source on electromagnetics engineering. In much of electrical and electronics engineering (including: analogue and digital telecommunications engineering; biomedical monitoring and diagnostic equipment; power systems engineering and sensor technology) getting back to the fundamental principles that govern the technologies, namely electromagnetic fields and waves, has become crucial for future customer friendly technology and systems. Electromagnetics Engineering Handbook has been written to enable undergraduate students studying electromagnetics engineering for the first time to gain an understanding of the essentials of the largely invisible, but powerful, electromagnetic fields governed by the four elegant Maxwell's equations. Moreover, the book helps to apply that knowledge through analytical and computational solutions of these frequency and material dependent electric and magnetic fields. As electrical and electronic engineering grows and subdivides into many specialities this book aims to inform the reader of the basic principles that govern all of these specialised systems and on how to apply that knowledge to understand and design devices and systems that may operate at vastly different frequencies and in various media (e.g. semiconductor materials, magnetic materials, biological tissues, outer space and sea water). It also deals with a range of different functions dependant on the area of application. For example at very low power frequencies electromagnetic fields perform vastly different functions from device to device, such as in power transformers; current transformers; infrared sensors; synchronous generators; superconducting devices; electric motors and electric powered transport systems. This handbook will be of great help to students, engineers, innovators and researchers working in a wide variety of disciplines

Engineering Electromagnetics Nathan Ida 2015-03-20 This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps – a short, introductory chapter followed by a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter

Introductory Engineering Electromagnetics Branko D. Popović 1971

Computational Electromagnetics for RF and Microwave Engineering David B. Davidson 2005-02-24 Introduces CEM methods, applying the codes that implement them to real-world engineering problems.

Fundamentals of Engineering Electromagnetics: Pearson New International Edition

David K. Cheng 2013-11-01 Fundamental of Engineering Electromagnetics not only presents the fundamentals of electromagnetism in a concise and logical manner, but also includes a variety of interesting and important applications. While adapted from his popular and more extensive work, Field and Wave Electromagnetics, this text incorporates a number of innovative pedagogical features. Each chapter begins with an overview which serves to offer qualitative guidance to the subject matter and motivate the student. Review questions and worked examples throughout each chapter reinforce the student's understanding of the material. Remarks boxes following the review questions and margin notes throughout the book serve as additional pedagogical aids.

Advanced Engineering Electromagnetics Constantine A. Balanis 2012-01-24 Balanis' second edition of Advanced Engineering Electromagnetics – a global best-seller for over 20 years – covers the advanced knowledge engineers involved in electromagnetic need to know, particularly as the topic relates to the fast-moving, continually evolving, and rapidly expanding field of wireless communications. The immense interest in wireless communications and the expected increase in wireless communications systems projects (antenna, microwave and wireless communication) points to an increase in the number of engineers needed to specialize in this field. In addition, the Instructor Book Companion Site contains

a rich collection of multimedia resources for use with this text. Resources include: Ready-made lecture notes in Power Point format for all the chapters. Forty-nine MATLAB® programs to compute, plot and animate some of the wave phenomena Nearly 600 end-of-chapter problems, that's an average of 40 problems per chapter (200 new problems; 50% more than in the first edition) A thoroughly updated Solutions Manual 2500 slides for Instructors are included.

Engineering Electromagnetics | Ninth Edition (SIE) W H Hayt Jr, 2020-03-26 Engineering Electromagnetics is a classic book that provides a comprehensive discussion on core concepts of the subject area. It follows an application-based approach, by supporting theoretical concepts with numerous solved examples and illustrations. This adapted edition focuses on enhancing the electrostatics portion and adding more solved examples. With all its careful revisions, the book is now a more useful resource for students of electrical engineering as well as electronics and communication engineering. Salient Features: 1. In-depth coverage of electrostatics and magnetostatics portions 2. A new chapter on Electromagnetic Radiation and Antennas 3. A focused chapter on Transmission Lines 4. Enhanced discussion on topics like vector analysis, properties of dielectric materials, interpretation of Maxwell's equations, etc. 5. Rich pedagogy: *100+ solved examples *100+ drill problems *500+ review problems

Engineering Electromagnetics Nathan Ida 2007-02-15 This text not only provides students with a good theoretical understanding of electromagnetic field equations but it also treats a large number of applications. No topic is presented unless it is directly applicable to engineering design or unless it is needed for the understanding of another topic. Included in this new edition are more than 400 examples and exercises, exercising every topic in the book. Also to be found are 600 end-of-chapter problems, many of them applications or simplified applications. A new chapter introducing numerical methods into the electromagnetic curriculum discusses the finite element, finite difference and moment methods.

Elements of Engineering Electromagnetics, 6/e Rao

Electromagnetics, Volume 1 (BETA) Steven W. Ellingson 2018-01-03 Electromagnetics (CC BY-SA 4.0) is an open textbook intended to serve as a primary textbook for a one-semester first course in undergraduate engineering electromagnetics, and includes: electric and magnetic fields; electromagnetic properties of materials; electromagnetic waves; and devices that operate according to associated electromagnetic principles including resistors, capacitors, inductors, transformers, generators, and transmission lines. This book employs the "transmission lines first" approach, in which transmission lines are introduced using a lumped-element equivalent circuit model for a differential length of transmission line, leading to one-dimensional wave equations for voltage and current. This book is intended for electrical engineering students in the third year of a bachelor of science degree program. A free electronic version of this book is available at: <https://doi.org/10.7294/W4WQ01ZM>

Wavelet Applications in Engineering Electromagnetics Tapan K. Sarkar 2002 V; List of Figures ix; List of Tables xv; PREFACE xix; ACKNOWLEDGMENTS xxi; 1 ROAD MAP OF THE BOOK 1; 1.1 INTRODUCTION 1; 1.2 WHY USE WAVELETS? 1; 1.3 WHAT ARE WAVELETS? 2; 1.4 WHAT IS THE WAVELET TRANSFORM? 3; 1.5 USE OF WAVELETS IN THE NUMERICAL SOLUTION OF ELECTROMAGNETIC FIELD PROBLEMS 4; 1.6 WAVELET METHODOLOGIES COMPLEMENT FOURIER TECHNIQUES 7; 1.7 OVERVIEW OF THE CHAPTERS 10; REFERENCES 11; 2 WAVELETS FROM AN ELECTRICAL ENGINEERING PERSPECTIVE 15; 2.1 INTRODUCTION 15; 2.2 DEVELOPMENT OF THE DISCRETE WAVELET METHODOLOGY FROM FILTER THEORY CONCEPTS 16.

Engg. Electromagnetics 7E (SIE) Hayt 2006

Handbook of Engineering Electromagnetics Rajeev Bansal 2004-09-01 Engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem. Beginners lack the expertise required to understand highly specialized treatments of individual topics. This is especially problematic for a field as broad as electromagnetics, which propagates into many diverse engineering fields. The time h

Prob. & Solutions of Engineering Electromagnetics Exp. Teachers 2007-02-01

Engineering Electromagnetics William Hart Hayt (Jr.) 2018-02

Engineering Electromagnetics David T. Thomas 1972

Essentials of Electromagnetics for Engineering David A. de Wolf 2001 A clearly written introduction to the key physical and engineering principles of electromagnetics, first published in 2000.

Engineering Electromagnetics and Waves Umran S. Inan 2015-03-19 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Engineering Electromagnetics and Waves is designed for upper-division college and university engineering students, for those who wish to learn the subject through self-study, and for practicing engineers who need an up-to-date reference text. The student using this text is assumed to have completed typical lower-division courses in physics and mathematics as well as a first course on electrical engineering circuits. This book provides engineering students with a solid grasp of electromagnetic fundamentals and electromagnetic waves by emphasizing physical understanding and practical applications. The topical organization of the text starts with an initial exposure to transmission lines and transients on high-speed distributed circuits, naturally bridging electrical circuits and electromagnetics. Teaching and Learning Experience This program will provide a better teaching and learning experience—for you and your students. It provides: Modern Chapter Organization Emphasis on Physical Understanding Detailed Examples, Selected Application Examples, and Abundant Illustrations Numerous End-of-chapter Problems, Emphasizing Selected Practical Applications Historical Notes on the Great Scientific Pioneers Emphasis on Clarity without Sacrificing Rigor and Completeness Hundreds of Footnotes Providing Physical Insight, Leads for Further Reading, and Discussion of Subtle and Interesting Concepts and Applications

Engineering Electromagnetics with E-Text and Appendix E William H. Hayt 2001-09 "Engineering Electromagnetics" is a "classic" in Electrical Engineering textbook publishing. First published in 1958 it quickly became a standard and has been a best-selling book for over 4 decades. A new co-author from Georgia Tech has come aboard for the sixth edition to help update the book. Designed for introductory courses in electromagnetics or electromagnetic field theory at the junior-level and offered in departments of electrical engineering, the text is a widely respected, updated version that stresses fundamentals and problem solving and discusses the material in an understandable, readable way. As in the previous editions, the book retains the scope and emphasis that have made the book very successful while updating all the problems.

Engineering Electromagnetics William Hart Hayt 1981

Engineering Electromagnetics and Waves Umran S. Inan 2014-12-04 Engineering

Electromagnetics and Waves is designed for upper-division college and university engineering students, for those who wish to learn the subject through self-study, and for practicing engineers who need an up-to-date reference text. The student using this text is assumed to have completed typical lower-division courses in physics and mathematics as well as a first course on electrical engineering circuits. This book provides engineering students with a solid grasp of electromagnetic fundamentals and electromagnetic waves by emphasizing physical understanding and practical applications. The topical organization of the text starts with an initial exposure to transmission lines and transients on high-speed distributed circuits, naturally bridging electrical circuits and electromagnetics. Teaching and Learning Experience This program will provide a better teaching and learning experience-for you and your students. It provides: Modern Chapter Organization Emphasis on Physical Understanding Detailed Examples, Selected Application Examples, and Abundant Illustrations Numerous End-of-chapter Problems, Emphasizing Selected Practical Applications Historical Notes on the Great Scientific Pioneers Emphasis on Clarity without Sacrificing Rigor and Completeness Hundreds of Footnotes Providing Physical Insight, Leads for Further Reading, and Discussion of Subtle and Interesting Concepts and Applications

Advanced Engineering Electromagnetics Wei-Tou Ni 2018-06 Electromagnetics is all around us. In simple words, every time we turn a power switch on, every time we press a key on our computer keyboard, or every time we perform a similar action involving an everyday electrical appliance, Electromagnetics comes into action. It is the foundation for the technologies of electrical and computer engineering, spanning the entire electromagnetic spectrum, from direct current to light, from the electrically and magnetically based technologies to the electronics technologies to the photonics technologies. As such, in the context of engineering education, it is fundamental to the study of electrical and computer engineering. While the fundamentals of electromagnetic fields remain the same, the manner in which they are taught may change with the passing of time owing to the requirements of the curricula and shifting emphasis of treatment of the fundamental concepts with the evolution of the technologies of electrical and computer engineering. The present book titled, **Advanced Engineering Electromagnetics** presents comprehensive coverage on advances and applications in the modern development of electromagnetics. This book covers state of the art research and reviews on new theories, methodologies and computational techniques, and interpretations of both theoretical and experimental results. It provides a thorough treatment of the theory of electrodynamics, mainly from a classical field theoretical point of view, and includes such things as formal electrostatics and magnetostatics and their unification into electrodynamics, the electromagnetic potentials, gauge transformations, covariant formulation of classical electrodynamics, force, momentum and energy of the electromagnetic field, radiation and scattering phenomena, electromagnetic waves and their propagation in vacuum and in media, and covariant Lagrangian/Hamiltonian field theoretical methods for electromagnetic fields, particles and interactions. This book will appeal to engineers and scientists in the electromagnetics profession and will act as a source of new topics for researchers in electromagnetics.

Engineering electromagnetics William Hart Hayt 1967

Introduction to Engineering Electromagnetic Fields Korada Umashankar 1989 This is a textbook designed to provide analytical background material in the area of Engineering Electromagnetic Fields for the senior level undergraduate and preparatory level graduate electrical engineering students. It is also an excellent reference book for researchers in the field of computational electromagnetic fields. The textbook covers ? Static Electric and Magnetic Fields: The basic laws governing the Electrostatics, Magnetostatics with engineering examples are presented which are enough to understand the fields and the electric current and charge sources. Dynamic Electromagnetic Fields: The Maxwell's equations in Time-Domain and solutions, the Maxwell's equations in Frequency-Domain and solutions. Extensive approaches are presented to solve partial differential equations satisfying electromagnetic boundary value problems. Foundation to electromagnetic field radiation, guided wave propagation is discussed to expose at the undergraduate level application of the Maxwell's equations to practical engineering problems.

Electromagnetic Engineering and Waves Aziz S. Inan 2014-08-20 "Engineering Electromagnetics and Waves" is designed for upper-division college and university engineering students, for those who wish to learn the subject through self-study, and for practicing engineers who need an up-to-date reference text. The student using this text is assumed to have completed typical lower-division courses in physics and mathematics as well as a first course on electrical engineering circuits." "This book provides engineering students with a solid grasp of electromagnetic fundamentals and electromagnetic waves by emphasizing physical understanding and practical applications. The topical organization of the text starts with an initial exposure to transmission lines and transients on high-speed distributed circuits, naturally bridging electrical circuits and electromagnetics. Teaching and Learning Experience This program will provide a better teaching and learning experience-for you and your students. It provides: Modern Chapter Organization Emphasis on Physical Understanding Detailed Examples, Selected Application Examples, and Abundant Illustrations Numerous End-of-chapter Problems, Emphasizing Selected Practical Applications Historical Notes on the Great Scientific Pioneers Emphasis on Clarity without Sacrificing Rigor and Completeness Hundreds of Footnotes Providing Physical Insight, Leads for Further Reading, and Discussion of Subtle and Interesting Concepts and Applications" **Engineering Electromagnetics** Umrans S. Inan 1999 Engineering Electromagnetics provides a solid foundation in electromagnetics fundamentals by emphasizing physical understanding and practical applications. Electromagnetics, with its requirements for abstract thinking, can prove challenging for students. The authors' physical and intuitive approach has produced a book that will inspire enthusiasm and interest for the material. Benefiting from a review of electromagnetic curricula at several schools and repeated use in classroom settings, this text presents material in a rigorous yet readable manner.

FEATURES/BENEFITS Starts with coverage of transmission lines before addressing fundamental laws, providing a smooth transition from circuits to electromagnetics. Emphasizes physical understanding and the experimental bases of fundamental laws. Offers detailed examples and numerous practical end-of-chapter problems, with each problem's topical content clearly identified. Provides historical notes, abbreviated biographies, and hundreds of footnotes to motivate interest and enhance understanding. Back Cover Benefiting from a review of electromagnetics curricula at several schools and repeated use in classroom settings, this text presents material in a comprehensive and practical yet readable manner. Features: Starts with coverage of transmission lines before addressing fundamental laws, providing a smooth transition from circuits to electromagnetics. Emphasizes physical understanding and the experimental bases of fundamental laws. Offers detailed examples and numerous practical end-of-chapter problems, with each problem's topical content clearly identified. Provides historical notes, abbreviated biographies, and hundreds of footnotes to motivate interest and enhance understanding.

Engineering Electromagnetics Rajeev Bansal 2018-10-08 Electromagnetics is too important in too many fields for knowledge to be gathered on the fly. Knowing how to apply theoretical principles to the solutions of real engineering problems and the development of new technologies and solutions is critical. Engineering

Electromagnetics: Applications provides such an understanding, demonstrating how to apply the underlying physical concepts within the particular context of the problem at hand. Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics, this book supplies a focused treatment covering radar, wireless, satellite, and optical communication technologies. It also introduces various numerical techniques for computer-aided solutions to complex problems, emerging problems in biomedical applications, and techniques for measuring the biological properties of materials. Engineering Electromagnetics: Applications shares the broad experiences of leading experts regarding modern problems in electromagnetics.

Fundamentals of Engineering Electromagnetics David Keun Cheng 2014

Elements of Engineering Electromagnetics Nannapaneni Narayana Rao 2004 This book, with its versatile approach, includes thorough coverage of statics with an emphasis on the dynamics of engineering electromagnetics. It integrates practical applications, numerical details, and completely covers all relevant principles. Topics include vectors and fields, Maxwell's Equations, fields and waves, electromagnetic potentials, devices, circuits, and systems, and transmission-line essentials for digital electronics. The second part of the book covers communications, guided wave principles, electronics and photonics, and radiation and antennae. A valuable resource for computer engineering and electrical engineering professionals.

Engineering Electromagnetics- A Simplified Approach Dr. D Ganesh Rao C K

Narayanappa 2007-01-01 This text is intended for use as an introduction to electromagnetic principles and engineering applications for electrical engineers. The increasing frequencies of analog systems as well as the increasing speeds of digital systems require the designers have a fundamental understanding of the basic electromagnetic principles and laws that are covered in this text. An important guiding principle throughout the preparation of the manuscript of the text was that the course it is intended to be used for will likely be the last course in electromagnetics that the majority of electrical engineering students will take. Due to the vector nature of EM fields, vector algebra is an essential tool for gaining a quantitative understanding of EM concepts and their applications; hence chapter 1 is dedicated for learning the basic operations on vectors and their associated implications. Features Avoids lengthy derivations of theorems, particularly those involving extensive use of vector calculus. Emphasis is on clarity without sacrificing rigor and completeness. Every concept is fortified with detailed examples and abundant illustrations. Each chapter is concluded with a variety of exercise problems with answers to allow the students to test their understanding of the material covered in each chapter. Provides a solid grasp of electromagnetic fundamentals by emphasizing physical understanding supported by a lot of graded worked out examples. Chapter summary for a quick review before tests and examinations. Clearly marked sections and subsections make the text clearer and are not intimidating to the reader. Contents Vector Analysis Electrostatics Steady Magnetic Fields Magnetic Forces, Materials and Inductance Time-Varying Electromagnetic Fields The Uniform Plane Wave **Surface Electromagnetics** Fan Yang 2019-06-20 Provides systematic coverage of the theory, physics, functional designs, and engineering applications of advanced electromagnetic surfaces.

Introduction to Engineering Electromagnetics Yeon Ho Lee 2013-03-26 This text provides students with the missing link that can help them master the basic principles of electromagnetics. The concept of vector fields is introduced by starting with clear definitions of position, distance, and base vectors. The symmetries of typical configurations are discussed in detail, including cylindrical, spherical, translational, and two-fold rotational symmetries. To avoid serious confusion between symbols with two indices, the text adopts a new notation: a letter with subscript 1-2 for the work done in moving a unit charge from point 2 to point 1, in which the subscript 1-2 mimics the difference in potentials, while the hyphen implies a sense of backward direction, from 2 to 1. This text includes 300 figures in which real data are drawn to scale. Many figures provide a three-dimensional view. Each subsection includes a number of examples that are solved by examining rigorous approaches in steps. Each subsection ends with straightforward exercises and answers through which students can check if they correctly understood the concepts. A total 350 examples and exercises are provided. At the end of each section, review questions are inserted to point out key concepts and relations discussed in the section. They are given with hints referring to the related equations and figures. The book contains a total of 280 end-of-chapter problems.

Loose Leaf for Engineering Electromagnetics John A. Buck 2018-07-25 First published just over 50 years ago and now in its Eighth Edition, Bill Hayt and John Buck's Engineering Electromagnetics is a classic text that has been updated for electromagnetics education today. This widely-respected book stresses fundamental concepts and problem solving, and discusses the material in an understandable and readable way. Numerous illustrations and analogies are provided to aid the reader in grasping the difficult concepts. In addition, independent learning is facilitated by the presence of many examples and problems. Important updates and revisions have been included in this edition. One of the most significant is a new chapter on electromagnetic radiation and antennas. This chapter covers the basic principles of radiation, wire antennas, simple arrays, and transmit-receive systems.

Engineering Electromagnetics 9e HAYT 2018-01-22 First published just over 50 years ago and now in its Eighth Edition, Bill Hayt and John Buck's Engineering Electromagnetics is a classic text that has been updated for electromagnetics education today. This widely-respected book stresses fundamental concepts and problem solving, and discusses the material in an understandable and readable way. Numerous illustrations and analogies are provided to aid the reader in grasping the difficult concepts. In addition, independent learning is facilitated by the presence of many examples and problems. Important updates and revisions have been included in this edition. One of the most significant is a new chapter on electromagnetic radiation and antennas. This chapter covers the basic principles of radiation, wire antennas, simple arrays, and transmit-receive systems.

Electromagnetics for Engineering Students Part I Sameir M. Ali Hamed 2017-09-20 Electromagnetics for Engineering Students starts with an introduction to vector analysis and progressive chapters provide readers with information about dielectric materials, electrostatic and magnetostatic fields, as well as wave propagation in different situations. Each chapter is supported by many illustrative examples and solved problems which serve to explain the principles of the topics and enhance the knowledge of students. In addition to the coverage of classical topics in electromagnetics, the book explains advanced concepts and topics such as the application of multi-pole expansion for scalar and vector potentials, an in depth treatment for the topic of the scalar potential including the boundary-value problems in cylindrical and spherical coordinates systems, metamaterials, artificial magnetic conductors and the concept of negative refractive index. Key features of this textbook include: • detailed and easy-to-follow presentation of mathematical analyses and problems • a total of 681 problems (162 illustrative examples, 88 solved problems, and 431 end of chapter problems) • an appendix of mathematical formulae and functions Electromagnetics for Engineering Students is an ideal textbook for first and second year engineering students who are learning about electromagnetism and related mathematical theorems.

Basic Engineering Electromagnetics Richard L. Coren 1989

Engineering Electromagnetics Kenneth Robert Demarest 1998 This book offers a traditional approach on electromagnetics, but has more extensive applications material. The author offers engaging coverage of the following: CRT's, Lightning, Superconductors, and Electric Shielding that is not found in other books. Demarest also provides a unique chapter on "Sources Forces, and Fields" and has an exceptionally complete chapter on Transmissions Lines.

Engineering Electromagnetics C. L. Wadhwa 2014 Engineering Electromagnetics is an outstanding new textbook for students of electrical engineering, electronics, and communication engineering. Electromagnetic theory is a very important component of such courses, as it has a wide variety of applications in wireless technology, which are relevant to all aspects of electrical engineering worldwide. The book consists of 12 chapters, each with applied examples, problems and solutions:

Professor Wadhwa is both an outstanding academic and a proven successful author of international repute. His various books on aspects of electrical engineering are used on courses worldwide.

Engineering Electromagnetics David T. Thomas 2013-10-22 Engineering Electromagnetics presents a bold approach to the teaching of electromagnetics to the electrical engineering undergraduate. This book begins by adopting Maxwell's Equations as the fundamental laws, an approach contrary to the traditional presentation of physical laws in the chronological order of their discovery that starts with Coulomb's Law. The use of Maxwell's Equations provides broad physical laws of general applicability and prevents confusion among students as to when specific laws may be applied. A problem solving or engineering analysis approach is used extensively throughout this text. Real life problems are presented and then reduced to an appropriate model or facsimile for solution. This publication is intended for engineering students at junior or senior level.