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Microwave Engineering
Operator Theory for Electromagnetics
Engineering Electromagnetics
Introduction to Electromagnetic Fields

FUNDAMENTALS OF ELECTROMAGNETIC THEORY, Second Edition
Fundamentals of Electromagnetics for Electrical and Computer Engineering
Fundamentals of Electromagnetism
Electromagnetics in Magnetic Resonance Imaging
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Handbook of Engineering Electromagnetics
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Electromagnetic Wave Propagation, Radiation, and Scattering
Electromagnetic Field Theory Fundamentals

Electromagnetic Fields and Waves: Fundamentals of Engineering
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Electromagnetic Foundations of Electrical Engineering

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ADALYNN CHAMBERS

Fundamentals of Electromagnetics 2
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Fundamentals of Electromagnetics John Wiley & Sons

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 *Foundations of Electromagnetic Compatibility* Cambridge University Press

Based on familiar circuit theory and basic physics, this book serves as an invaluable reference for both analog and digital engineers alike. For those who work with analog RF, this book is a must-have resource. With computers and networking equipment of the 21st century running at such high frequencies, it is now crucial for digital designers to understand electromagnetic fields, radiation and transmission lines. This knowledge is necessary for maintaining signal integrity and

achieving EMC compliance. Since many digital designers are lacking in analog design skills, let alone electromagnetics, an easy-to-read but informative book on electromagnetic topics should be considered a welcome addition to their professional libraries. Covers topics using conceptual explanations and over 150 lucid figures, in place of complex mathematics Demystifies antennas, waveguides, and transmission line phenomena Provides the foundation necessary to thoroughly understand signal integrity issues associated with high-speed digital design

An Introduction to Applied Electromagnetics and Optics John Wiley & Sons

CD-ROM contains: Demonstration exercises -- Complete solutions --

Problem statements.

Electromagnetics Explained

Cambridge University Press

Fundamentals of Electromagnetics for Electrical and Computer Engineering, First Edition is appropriate for all beginning courses in electromagnetics, in both electrical engineering and computer engineering programs. This is ideal for anyone interested in learning more about electromagnetics. Dr. N. Narayana Rao has designed this compact, one-semester textbook in electromagnetics to fully reflect the evolution of technologies in both electrical and computer engineering. This book's unique approach begins with Maxwell's equations for time-varying fields (first in integral and then in differential form), and also introduces

waves at the outset. Building on these core concepts, Dr. Rao treats each category of fields as solutions to Maxwell's equations, highlighting the frequency behavior of physical structures. Next, he systematically introduces the topics of transmission lines, waveguides, and antennas. To keep the subject's geometry as simple as possible, while ensuring that students master the physical concepts and mathematical tools they will need, Rao makes extensive use of the Cartesian coordinate system. Topics covered in this book include: uniform plane wave propagation; material media and their interaction with uniform plane wave fields; essentials of transmission-line analysis (both frequency- and time-domain); metallic waveguides; and

Hertzian dipole field solutions. Material on cylindrical and spherical coordinate systems is presented in appendices, where it can be studied whenever relevant or convenient. Worked examples are presented throughout to illuminate (and in some cases extend) key concepts; each chapter also contains a summary and review questions. (Note: this book provides a one-semester alternative to Dr. Rao's classic textbook for two-semester courses, *Elements of Engineering Electromagnetics*, now in its Sixth Edition.)

Electrical Engineering Fundamentals

John Wiley & Sons

This text discusses electromagnetics from the view of operator theory, in a manner more commonly seen in textbooks of quantum mechanics. It

includes a self-contained introduction to operator theory, presenting definitions and theorems, plus proofs of the theorems when these are simple or enlightening.

Fundamentals of Electromagnetics with Engineering Applications, 1E Book Alone
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Publisher Description

Microwave Engineering Wiley

With the rapid growth of wireless technologies, more and more people are trying to gain a better understanding of electromagnetics. After all, electromagnetic fields have a direct impact on reception in all wireless applications. This text explores electromagnetics, presenting practical applications for wireless systems, transmission lines, waveguides,

antennas, electromagnetic interference, and microwave engineering. It is designed for use in a one- or two-semester electromagnetics sequence for electrical engineering students at the junior and senior level. The first book on the subject to tackle the impact of electromagnetics on wireless applications: Includes numerous worked-out example problems that provide you with hands-on experience in solving electromagnetic problems. Describes a number of practical applications that show how electromagnetic theory is put into practice. Offers a concise summary at the end of each chapter that reinforces the key points. Detailed MATLAB examples are integrated throughout the book to enhance the material.

Operator Theory for Electromagnetics

CRC Press

This introductory text provides coverage of both static and dynamic fields. There are references to computer visualisation (Mathcad) and computation throughout the text, and there are Mathcad electronic books available free on the Internet to help students visualise electromagnetic fields. Important equations are highlighted in the text, and there are examples and problems throughout, with answers to the problems at the back of the book.

Engineering Electromagnetics

Springer Science & Business Media

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.

Introduction to Electromagnetic Fields

Springer

This book is the first of two volumes which have been created to provide an

understanding of the basic principles and applications of electromagnetic fields for electrical engineering students. *Fundamentals of Electromagnetics Vol 1: Internal Behavior of Lumped Elements* focuses upon the DC and low-frequency behavior of electromagnetic fields within lumped elements. The properties of electromagnetic fields provide the basis for predicting the terminal characteristics of resistors, capacitors, and inductors. The properties of magnetic circuits are included as well. For slightly higher frequencies for which the lumped elements are a significant fraction of a wavelength in size the second volume of this set, *Fundamentals of Electromagnetics Vol 2: Quasistatics and Waves*, examines how the low-frequency models of lumped elements

are modified to include parasitic elements. Upon completion of understanding the two volumes of this book, students will have gained the necessary knowledge to progress to advanced studies of electromagnetics. [FUNDAMENTALS OF ELECTROMAGNETIC THEORY, Second Edition Springer](#) The applications of electromagnetic phenomena within electrical engineering have been evolving and progressing at a fast pace. In contrast, the underlying principles have been stable for a long time and are not expected to undergo any changes. It is these electromagnetic field fundamentals that are the subject of discussion in this book with an emphasis on basic principles, concepts and governing laws that apply across the electrical engineering discipline.

Electromagnetic Foundations of Electrical Engineering begins with an explanation of Maxwell's equations, from which the fundamental laws and principles governing the static and time-varying electric and magnetic fields are derived. Results for both slowly- and rapidly-varying electromagnetic field problems are discussed in detail. Key aspects: Offers a project portfolio, with detailed solutions included on the companion website, which draws together aspects from various chapters so as to ensure comprehensive understanding of the fundamentals. Provides end-of-chapter homework problems with a focus on engineering applications. Progresses chapter by chapter to increasingly more challenging topics, allowing the reader to grasp the

more simple phenomena and build upon these foundations. Enables the reader to attain a level of competence to subsequently progress to more advanced topics such as electrical machines, power system analysis, electromagnetic compatibility, microwaves and radiation. This book is aimed at electrical engineering students and faculty staff in sub-disciplines as diverse as power and energy systems, circuit theory and telecommunications. It will also appeal to existing electrical engineering professionals with a need for a refresher course in electromagnetic foundations.

Fundamentals of Electromagnetics for Electrical and Computer

Engineering Pearson Higher Ed

This book is the second of two volumes

which have been created to provide an understanding of the basic principles and applications of electromagnetic fields for electrical engineering students. Fundamentals of Electromagnetics Vol 2: Quasistatics and Waves examines how the low-frequency models of lumped elements are modified to include parasitic elements. For even higher frequencies, wave behavior in space and on transmission lines is explained. Finally, the textbook concludes with details of transmission line properties and applications. Upon completion of this book and its companion Fundamentals of Electromagnetics Vol 1: Internal Behavior of Lumped Elements, with a focus on the DC and low-frequency behavior of electromagnetic fields within lumped elements, students

will have gained the necessary knowledge to progress to advanced studies of electromagnetics. Fundamentals of Electromagnetism Morgan & Claypool Publishers 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..." - Alf Riddle, IEEE Microwave Magazine
 Fundamentals of Engineering Electromagnetics lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics.

[Electromagnetics in Magnetic Resonance Imaging](#) Springer Science & Business Media

A clearly written introduction to the key physical and engineering principles of electromagnetics, first published in

2000.

Fundamentals of Engineering
Electromagnetics Cambridge University
Press

Fundamentals of Electromagnetics with
Engineering Applications Wiley

Handbook of Engineering

Electromagnetics SciTech Publishing

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. Fundamentals of Electromagnetics for Electrical and Computer Engineering, First Edition is appropriate for all beginning courses in electromagnetics, in both electrical engineering and computer engineering programs. This is ideal for anyone interested in learning more about electromagnetics. Dr. N.

Narayana Rao has designed this compact, one-semester textbook in electromagnetics to fully reflect the evolution of technologies in both electrical and computer engineering. This book's unique approach begins with Maxwell's equations for time-varying fields (first in integral and then in differential form), and also introduces waves at the outset. Building on these core concepts, Dr. Rao treats each category of fields as solutions to Maxwell's equations, highlighting the frequency behavior of physical structures. Next, he systematically introduces the topics of transmission lines, waveguides, and antennas. To keep the subject's geometry as simple as possible, while ensuring that students master the physical concepts and

mathematical tools they will need, Rao makes extensive use of the Cartesian coordinate system. Topics covered in this book include: uniform plane wave propagation; material media and their interaction with uniform plane wave fields; essentials of transmission-line analysis (both frequency- and time-domain); metallic waveguides; and Hertzian dipole field solutions. Material on cylindrical and spherical coordinate systems is presented in appendices, where it can be studied whenever relevant or convenient. Worked examples are presented throughout to illuminate (and in some cases extend) key concepts; each chapter also contains a summary and review questions. (Note: this book provides a one-semester alternative to Dr. Rao's classic textbook

for two-semester courses, Elements of Engineering Electromagnetics, now in its Sixth Edition.)

Fundamentals of Engineering

Electromagnetics Pearson Higher Ed

This book serves as a tool for any engineer who wants to learn about circuits, electrical machines and drives, power electronics, and power systems basics. From time to time, engineers find they need to brush up on certain fundamentals within electrical engineering. This clear and concise book is the ideal learning tool for them to quickly learn the basics or develop an understanding of newer topics. Fundamentals of Electric Power Engineering: From Electromagnetics to Power Systems helps non-electrical engineers master a power system

information quickly by imparting tools and tradetricks for remembering basic concepts and grasping newdevelopments. Created to provide more in-depth knowledge offundamentals—rather than a broad range of applicationonly—this comprehensive and up-to-date book: Covers topics such as circuits, electrical machines and drives,power electronics, and power system basics as well as newgeneration technologies Allows nonelectrical engineers to build their electricalknowledge quickly Includes exercises with worked solutions to assist readers ingrasping concepts found in the book Contains “in-depth” side bars throughout whichpique the reader’s curiosity Fundamentals of Electric Power Engineering is an idealrefresher course

for those involved in this interdisciplinarybranch. For supplementary files for this book, please visit <http://booksupport.wiley.com/> <http://booksupport.wiley.com/a>
Computational Electromagnetics for RF and Microwave Engineering
Morgan & Claypool Publishers
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 electromagnetic 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.

**Fundamentals of Engineering
Electromagnetics** Elsevier

Modern technology is rapidly developing

and for this reason future engineers need to acquire advanced knowledge in science and technology, including electromagnetic phenomena. This book is a contemporary text of a one-semester course for junior electrical engineering students. It covers a broad spectrum of electromagnetic phenomena such as, surface waves, plasmas, photonic crystals, negative

refraction as well as related materials including superconductors. In addition, the text brings together electromagnetism and optics as the majority of texts discuss electromagnetism disconnected from optics. In contrast, in this book both are discussed. Seven labs have been developed to accompany the material of the book.

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