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FUNDAMENTALS OF ENGINEERING ELECTROMAGNETICS

PEARSON NEW INTERNATIONAL EDITION

Pearson Higher Ed **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.

FUNDAMENTALS OF ENGINEERING ELECTROMAGNETICS

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INTRODUCTION TO ENGINEERING ELECTROMAGNETICS

Springer Science & Business Media 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.

ENGINEERING ELECTROMAGNETICS

FUNDAMENTALS OF APPLIED ELECTROMAGNETICS

Prentice Hall CD-ROM contains: Demonstration exercises -- Complete solutions -- Problem statements.

FUNDAMENTALS OF ELECTROMAGNETICS WITH ENGINEERING APPLICATIONS

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.

FIELD AND WAVE ELECTROMAGNETICS

Pearson Education India

ENGINEERING ELECTROMAGNETICS

Springer 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

ADVANCED ENGINEERING ELECTROMAGNETICS

John Wiley & Sons 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

PERGAMON UNIFIED ENGINEERING SERIES

Elsevier *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.

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ELECTROMAGNETIC FIELD THEORY FUNDAMENTALS

Cambridge University Press Guru and Hizioglu have produced an accessible and user-friendly text on electromagnetics that will appeal to both students and professors teaching this course. This lively book includes many worked examples and problems in every chapter, as well as chapter summaries and background revision material where appropriate. The book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields, before moving on to cover Maxwell's equations, propagation, transmission and radiation. Chapters on the Finite Element and Finite Difference method, and a detailed appendix on the Smith chart are additional enhancements. MathCad code for many examples in the book and a comprehensive solutions set are available at www.cambridge.org/9780521830164.

FUNDAMENTALS OF ELECTROMAGNETICS FOR ELECTRICAL AND COMPUTER ENGINEERING

Pearson Higher Ed 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.)

ENGINEERING ELECTROMAGNETICS

Springer Nature This comprehensive two semester textbook, now in its 4th edition, continues to provide students with a thorough theoretical understanding of electromagnetic field relations while also providing numerous practical applications. The topics follow a tested pattern familiar to the previous edition, each with a brief, introductory chapter followed by a chapter with extensive treatment, 10 to 30 applications, examples and exercises, and problems and summaries. There is new emphasis on problems, examples and applications based on energy harvesting and renewable energy; additional information on sensing and actuation, new material on issues in energy, power, electronics, and measurements, and an emphasis on aspects of electromagnetics relevant to digital electronics and wireless communication. The author adds and revises problems to emphasize the use of tools such as Matlab; new advanced problems for higher level students; a discussion of symbolic and numerical integration; additional examples with each chapter; and new online material including experiments and review questions. The book is an undergraduate textbook at the upper division 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. Features hundreds of examples and exercises, many new or revised for every topic in the book. Includes over 650 end-of-chapter problems, many of them new or revised, mostly based on applications or simplified applications. Includes a suite of online demonstration software including a computerized Smith Chart.

INTRODUCTION TO ELECTROMAGNETIC ENGINEERING

Courier Corporation This study of electromagnetic theory introduces students to a broad range of quantities and

concepts, imparting the necessary vector analysis and associated mathematics and reinforcing its teachings with several elementary field problems. Based on circuit theory rather than on the classical force-relationship approach, the text uses the theory of electric circuits to provide a system of experiments already familiar to the electrical engineer; a series of field concepts are then introduced as a logical extension of circuit theory. Virtually unobtainable elsewhere, this text was written by a prominent professor whose recognition includes the prestigious IEEE Electromagnetics Award. It is appropriate for advanced undergraduate and graduate students with a background in calculus and circuit theory. 176 Figures. 9 Tables.

FUNDAMENTALS OF ELECTRIC POWER ENGINEERING

FROM ELECTROMAGNETICS TO POWER SYSTEMS

John Wiley & Sons 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 amass power system information quickly by imparting tools and trade tricks for remembering basic concepts and grasping new developments. Created to provide more in-depth knowledge of fundamentals—rather than a broad range of applications only—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 new generation technologies. Allows non-electrical engineers to build their electrical knowledge quickly. Includes exercises with worked solutions to assist readers in grasping concepts found in the book. Contains “in-depth” side bars throughout which pique the reader’s curiosity. **Fundamentals of Electric Power Engineering** is an ideal refresher course for those involved in this interdisciplinary branch. For supplementary files for this book, please visit <http://booksupport.wiley.com/>

ELECTROMAGNETICS, VOLUME 1 (BETA)

VT Publishing **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>

STUDENT'S SOLUTIONS MANUAL TO ACCOMPANY ATKINS' PHYSICAL CHEMISTRY

This solutions manual provides the authors' detailed solutions to exercises and problems in physical chemistry. It comprises solutions to exercises at the end of each chapter and solutions to numerical, theoretical and additional problems.

ELECTROMAGNETIC FIELD THEORIES FOR ENGINEERING

Springer Science & Business Media A four year Electrical and Electronic engineering curriculum normally contains two modules of electromagnetic field theories during the first two years. However, some curricula do not have enough slots to accommodate the two modules. This book, *Electromagnetic Field Theories*, is designed for Electrical and Electronic engineering undergraduate students to provide fundamental knowledge of electromagnetic fields and waves in a structured manner. A comprehensive fundamental knowledge of electric and magnetic fields is required to understand the working principles of generators, motors and transformers. This knowledge is also necessary to analyze transmission lines, substations, insulator flashover mechanism, transient phenomena, etc. Recently, academics and researchers are working for sending electrical power to a remote area by designing a suitable antenna. In this case, the knowledge of electromagnetic fields is considered as important tool.

INSTRUCTOR'S SOLUTIONS MANUAL TO ACCOMPANY ATKINS' PHYSICAL CHEMISTRY, NINTH EDITION

The Instructor's solutions manual to accompany Atkins' Physical Chemistry provides detailed solutions to the 'b' exercises and the even-numbered discussion questions and problems that feature in the ninth edition of Atkins' Physical Chemistry. The manual is intended for instructors and consists of material that is not available to undergraduates. The manual is free to all adopters of the main text.

FE ELECTRICAL AND COMPUTER REVIEW MANUAL

RAPID PREPARATION FOR THE ELECTRICAL AND COMPUTER FUNDAMENTALS OF ENGINEERING EXAM

Professional Publications Incorporated Prepare to pass the computer-based FE Electrical and Computer exam with PPI's FE Electrical and Computer Review Manual.

PARTIAL DIFFERENTIAL EQUATIONS

AN INTRODUCTION

John Wiley & Sons **Partial Differential Equations** presents a balanced and comprehensive introduction to the concepts and techniques required to solve problems containing unknown functions of multiple variables. While focusing on the three most classical partial differential equations (PDEs)—the wave, heat, and Laplace equations—this detailed text also presents a broad practical perspective that merges mathematical concepts with real-world application in diverse areas including molecular structure, photon and electron interactions, radiation of electromagnetic waves, vibrations of a solid, and many more. Rigorous pedagogical tools aid in student comprehension; advanced topics are introduced frequently, with minimal technical jargon, and a wealth of exercises reinforce vital skills and invite additional self-study. Topics are presented in a logical progression, with major concepts such as wave propagation, heat and diffusion, electrostatics, and quantum mechanics placed in contexts familiar to students of various fields in science and engineering. By understanding the properties and applications of PDEs, students will be equipped to better analyze and interpret central processes of the natural world.

PRINCIPLES OF ELECTRODYNAMICS

Courier Corporation The 1988 Nobel Prize winner establishes the subject's mathematical background, reviews the principles of electrostatics, then introduces Einstein's special theory of relativity and applies it to topics throughout the book.

ELECTROMAGNETIC FIELDS AND WAVES: FUNDAMENTALS OF ENGINEERING

McGraw Hill Professional **Publisher's Note:** Products purchased from Third Party sellers are not guaranteed by the

publisher for quality, authenticity, or access to any online entitlements included with the product. Understand electromagnetic field principles, engineering techniques, and applications This core introductory-level undergraduate textbook offers a solid coverage of the fundamentals of electromagnetic fields and waves. Written by two electrical engineering experts and experienced educators, the book is designed to accommodate both one and two semester curricula. Electromagnetic Fields and Waves: Fundamentals of Engineering presents detailed explanations of the topic of EM fields in a holistic fashion that integrates the math and the physics of the material with students' realistic preparation in mind. You will learn about static and time-varying fields, wave propagation and polarization, transmission lines and waveguides, and more. Coverage includes:

- An introduction to electromagnetic fields and waves
- Transmission lines and wave equations
- Transition to electrostatics
- Electrostatic fields, electric flux, and Gauss' law
- Electric force, field, energy, and potential
- Materials: conductors and dielectrics
- Poisson's and Laplace's equations
- Uniqueness theorem and graphical and numerical solutions
- Magnetic fields and flux
- Magnetic materials, magnetic circuits, and inductance
- Time-varying fields and Faraday's law
- Wave propagation: plane waves
- Wave polarization and propagation in multiple layers
- Waveguides and cavity resonators
- Historical review of EM scientists

FUNDAMENTALS OF SOLID STATE ENGINEERING

Springer Science & Business Media Provides a multidisciplinary introduction to quantum mechanics, solid state physics, advanced devices, and fabrication Covers wide range of topics in the same style and in the same notation Most up to date developments in semiconductor physics and nano-engineering Mathematical derivations are carried through in detail with emphasis on clarity Timely application areas such as biophotonics , bioelectronics

ELECTROMAGNETICS

ELECTROMAGNETIC FIELD THEORY

A PROBLEM SOLVING APPROACH

ENGINEERING ELECTROMAGNETICS

Prentice Hall 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.

ANECHOIC RANGE DESIGN FOR ELECTROMAGNETIC MEASUREMENTS

Artech House As technologies for wireless communications, including 5G and Internet of Things (IoT), require more complex antennas, practitioners need more information on the best methods to perform measurements on these different types of antennas. This exciting resource provides guidance on the proper design of indoor ranges for RF antenna measurements. The important aspects of specifying the range or resources needed in a development program are explored. Analysis of existing ranges to determine their suitability for performing specific test that a user of the range may require is also introduced. Readers find in-depth coverage of the design of ranges and how to evaluate the error contributions of the range and the best approach to measure a system, antenna, or other radiating hardware. The book provides information on selecting the right range to make a specific type of measurement and understanding for an RF absorber. Matlab scripts are also included to help readers estimate the performance of an RF absorber. Readers will be able to estimate the required space for a given type of measurement, as well as identify what type of range is the better choice, based on physical limitations and economics. Simple rules for the design of an anechoic chamber, based on the required accuracy and parameters to be measured are described. Packed with examples and

references, this book is a prime reference for any practitioner that uses or designs facilities for the measurement of electromagnetic energy.

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FUNDAMENTALS OF MAGNETIC THERMONUCLEAR REACTOR DESIGN

Woodhead Publishing **Fundamentals of Magnetic Thermonuclear Reactor Design** is a comprehensive resource on fusion technology and energy systems written by renowned scientists and engineers from the Russian nuclear industry. It brings together a wealth of invaluable experience and knowledge on controlled thermonuclear fusion (CTF) facilities with magnetic plasma confinement - from the first semi-commercial tokamak T-3, to the multi-billion international experimental thermonuclear reactor ITER, now in construction in France. As the INTOR and ITER projects have made an immense contribution in the past few decades, this book focuses on its practical engineering aspects and the basics of technical physics and electrical engineering. Users will gain an understanding of the key ratios between plasma and technical parameters, design streamlining algorithms and engineering solutions. Written by a team of qualified experts who have been involved in the design of thermonuclear reactors for over 50 years Outlines the most important features of the ITER project in France which is building the largest tokamak, including the design, material selection, safety and economic considerations Includes data on how to design magnetic fusion reactors using CAD tools, along with relevant regulatory documents

CLASSICAL ELECTROMAGNETIC RADIATION, THIRD EDITION

Courier Corporation **Newly corrected, this edition of a highly acclaimed text is suitable for advanced physics courses. Its accessible macroscopic view of classical electromagnetics emphasizes integrating electromagnetic theory with physical optics. 1994 edition.**

CONCEPTUAL ELECTROMAGNETICS

CRC Press **This is a textbook on electromagnetic fields and waves completely based on conceptual understanding of**

electromagnetics. The text provides operational knowledge and firm grasp of electromagnetic fundamentals aimed toward practical engineering applications by combining fundamental theory and a unique and comprehensive collection of as many as 888 conceptual questions and problems in electromagnetics. Conceptual questions are designed to strongly enforce and enhance both the theoretical concepts and understanding and problem-solving techniques and skills in electromagnetics.

LASERS:PRINCIPLES, TYPES AND APPLICATIONS

New Age International This Book On Lasers Is The Culmination Of Several Years Of Relentless Personal Research, Exhaustive Literature Survey, Critical Analysis Of All The Facets Of The Subject And Interactions With The Subject Experts And Students In India And Abroad, By The Author.This Book Has Been Very Systematically Structured And Organised. The Subject Has Been Divided Into Three Parts. Part A Deals With All The Established Principles And Theories Of Laser Science Prefixed With A Journey Through The Relevant Areas Of Optics And Modern Physics. Part B Presents A Galaxy Of All The Available Laser Schemes Of The Day, With A Peep Into The Future. Part C Deals With The Myriads Of Applications Of This 'Wonder Beam' In Every Walk Of Life.While Giving An Exhaustive Account About Lasers, The Book Also Covers All The, Relevant Aspects Of Related Subjects Such As Fibre Optics, Holography, Laser Safety Etc. Apart From The Excellent Presentation Of The Topics, As They Unfold, This Book Contains A Rich Fund Of Worked Out Examples And Student Exercises, With Answers.The Language Is Simple And Reader-Friendly, The Treatise Logical, And Even The Intricate Mathematical Derivations And Clear And Lucid. This Book Is Meant To Be A Very Valuable Guide To Students At Graduate And Postgraduate Levels And To Those Working Or Intending To Work In The Field Of Lasers, To Add To What They Already Know. This Is Perhaps The Only Book, At Present, On Lasers By An Indian Author With Such A Vast Coverage Of The Subject Itself And The Associated Disciplines.

FUNDAMENTALS OF ELECTRIC CIRCUITS

For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

PHYSICS OF CONTINUOUS MEDIA

PROBLEMS AND SOLUTIONS IN ELECTROMAGNETISM, FLUID MECHANICS AND MHD, SECOND EDITION

CRC Press Based on the author's many years of lectures and tutorials at Novosibirsk State University and the University of Manchester, **Physics of Continuous Media: Problems and Solutions in Electromagnetism, Fluid Mechanics and MHD, Second Edition** takes a problems-based approach to teaching continuous media. The book's problems and detailed solutions make it an ideal companion text for advanced physics and engineering courses. Suitable for any core physics program, this revised and expanded edition includes a new chapter on magnetohydrodynamics as well as additional problems and more detailed solutions. Each chapter begins with a summary of the definitions and equations that are necessary to understand and tackle the problems that follow. The text also provides numerous references throughout, including Landau and Lifshitz's famous course of theoretical physics and original journal publications.

THEORY OF ELECTROMAGNETIC WAVE PROPAGATION

Courier Corporation Clear, coherent work for graduate-level study discusses the Maxwell field equations, radiation from wire antennas, wave aspects of radio-astronomical antenna theory, the Doppler effect, and more.

ELECTRODYNAMICS AND OPTICS

Springer Nature This engaging text offers an accessible and clear treatment of the fundamentals of electromagnetics and optics, a core part of the standard undergraduate physics curriculum. Starting with static electric and magnetic fields, the book works through electromagnetic oscillations and the formation and propagation of electromagnetic waves, before moving on to geometric and wave optics, optical instrumentation and some discussion of new technologies in optics. The text is written from the experimental physics point of view, giving numerous real life examples and applications of devices. This highly motivating presentation deepens the knowledge in a very accessible way, carefully interweaving theory and practical applications. Students are guided through the material with well-chosen examples and case studies, and helpful chapter summaries are provided together with numerous exercises and detailed solutions, all intended to motivate and develop a well-founded understanding of the subject matter.

ENGINEERING ELECTROMAGNETICS

McGraw-Hill College "Now in its Seventh Edition, Bill Hayt and John Buck's **Engineering Electromagnetics** is a classic book

that has been updated for electromagnetics today. - This widely respected book stresses fundamentals and problem solving, and discusses the material in an understandable, readable way. Numerous illustrations and analogies are provided to aid the reader in grasping difficult concepts. - In addition, independent learning is facilitated by the presence of many examples and problems."--Jacket.

THERMODYNAMICS

AN ENGINEERING APPROACH

The 4th Edition of Cengel & Boles *Thermodynamics: An Engineering Approach* takes thermodynamics education to the next level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging, student-oriented conversational writing style, this book is now the most widely adopted thermodynamics text in the U.S. and in the world.