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Electromagnetism John Wiley & Sons

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Achieve optimal microwave system performance by mastering the principles and methods underlying today's powerful computational tools and commercial software in electromagnetics. This authoritative resource offers you clear and complete explanation of this essential electromagnetics knowledge, providing you with the analytical background you need to understand such key approaches as MoM (method of moments), FDTD (Finite Difference Time Domain) and FEM (Finite Element Method), and Green's functions. This comprehensive book includes all math necessary to master the material. Moreover, it features numerous solved problems that help ensure your understanding of key concepts throughout the book.

Numerical Techniques in Electromagnetics, Second Edition OUP USA

Signals and Systems: A Primer with MATLAB(R) provides clear, interesting, and easy-to-understand coverage of continuous-time and discrete-time signals and systems. Each chapter opens with a historical profile or career talk, followed by an introduction that states the chapter objectives and links the chapter to the previous ones. All principles are presented in a lucid, logical, step-by-step approach. As much as possible, the authors avoid wordiness and detail overload that could hide concepts and impede understanding. In recognition of the requirements by the Accreditation Board for Engineering and Technology (ABET) on integrating computer tools, the use of MATLAB(R) is encouraged in a student-friendly manner. MATLAB is introduced in Appendix B and applied gradually throughout the book. Each illustrative example is immediately followed by a practice problem along with its answer. Students can follow the example step by step to solve the practice problem without flipping pages or looking at the end of the book for answers. These practice problems test students' comprehension and reinforce key concepts before moving on to the next section. Toward the end of each chapter, the authors discuss some application aspects of the concepts covered in the chapter. The material covered in the chapter is applied to at least one or two practical problems or devices. This helps students see how the concepts are applied to real-life situations. In addition, thoroughly worked examples are given liberally at the end of every section. These examples give students a solid grasp of the solutions as well as the confidence to solve similar problems themselves. Some of the problems are solved in two or three ways to facilitate a deeper understanding and comparison of different approaches. Ten review questions in the form of multiple-choice objective items are provided at the end of each chapter with answers. The review questions are intended to cover the "little tricks" that the examples and end-of-chapter problems may not cover. They serve as a self-test device and help students determine chapter mastery. Each chapter also ends with a summary of key points and formulas. Designed for a three-hour semester course on signals and systems, Signals and Systems: A Primer with MATLAB(R) is intended as a textbook for junior-level undergraduate students in electrical and computer engineering. The prerequisites for a course based on this book are knowledge of standard mathematics (including calculus and differential equations) and electric circuit analysis.

Power Circuits and Electromechanics CRC Press

Guru and Hiziroglu 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.

My Life and Work Oxford Series in Electrical an

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.

Monte Carlo Methods for Electromagnetics Technical Publications

This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite-difference time-domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. It teaches the readers how to pose, numerically analyze, and solve EM problems, to give them the ability to expand their problem-solving skills using a variety of methods, and to prepare them for research in electromagnetism. Includes new homework problems in each chapter. Each chapter is updated with the current trends in CEM. Adds a new appendix on CEM codes, which covers commercial and free codes. Provides updated MATLAB code.

Principles of Modern Communication Systems Oxford University Press, USA

Elements of Electromagnetics Oxford University Press, USA

Engineering Electromagnetics Cram101

Elements of Electromagnetics, Fifth Edition, uses a vectors-first approach to explain electrostatics, magnetostatics, fields, waves, and applications like transmission lines, waveguides, and antennas. The book also provides a balanced presentation of time-varying and static fields, preparing students for employment in today's industrial and manufacturing sectors. The new edition includes new Application Notes detailing real-world connections, coverage of wave polarization states, a math pre-test for professors to assess students' mathematical skills, and new and updated problems.

Fundamentals of Electric Circuits Elements of Electromagnetics

Thoroughly updated and revised, this third edition of Sadiku's Elements of Electromagnetics is designed for the standard sophomore/junior level

electromagnetics course taught in departments of electrical engineering. It takes a two-semester approach to fundamental concepts and applications in electromagnetics beginning with vector analysis-which is then applied throughout the text. A balanced presentation of time-varying fields and static fields prepares students for employment in today's industrial and manufacturing sectors. Mathematical theorems are treated separately from physical concepts. Students, therefore, do not need to review any more mathematics than their level of proficiency requires. Sadiku is well-known for his excellent pedagogy, and this edition refines his approach even further. Student-oriented pedagogy comprises: chapter introductions showing how the forthcoming material relates to the previous chapter, summaries, boxed formulas, and multiple choice review questions with answers allowing students to gauge their comprehension. Many new problems have been added throughout the text, as well as a new chapter on "Modern Topics" covering microwaves, electromagnetic interference and compatibility, and optical fibers. This book is appropriate for sophomore/junior level students in electrical engineering. It will also be accompanied by a Solutions Manual, available free to adopters of the main text.

Elements of Engineering Electromagnetics Cambridge University Press

Microelectronic Circuits by Sedra and Smith has served generations of electrical and computer engineering students as the best and most widely-used text for this required course. Respected equally as a textbook and reference, "Sedra/Smith" combines a thorough presentation of fundamentals with an introduction to present-day IC technology. It remains the best text for helping students progress from circuit analysis to circuit design, developing design skills and insights that are essential to successful practice in the field. Significantly revised with the input of two new coauthors, slimmed down, and updated with the latest innovations, Microelectronic Circuits, Eighth Edition, remains the gold standard in providing the most comprehensive, flexible, accurate, and design-oriented treatment of electronic circuits available today.

A Primer with Matlab(r) Artech House

Taking a vector-first approach, this text provides a balanced presentation of a host of topics including electrostatics, magnetostatics, fields, waves, and applications like transmission lines, waveguides, and antennas. The new edition includes new Application Notes detailing real-world connections, a revised math pre-test for professors to assess students' mathematical skills, and new and updated problems.

Microelectronic Circuits McGraw-Hill Education

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 350 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams.

Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 351 fully solved problems Exercises to help you test your mastery of electromagnetics Support for all the major textbooks for electromagnetic courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

Elements of Electromagnetics Cambridge University Press

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format.

You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you:

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- New section on transmission line parameters
- New section illustrating the use of admittance plane and chart
- New section on impedance transformation
- New chapter on sky waves, attenuation and delay effects in troposphere, line of sight propagation and other relevant topics
- Support for all major textbooks for courses in Electromagnetics PLUS: Access to revised Schaums.com website with access to 20 problem-solving videos, and more.

Schaum's reinforces the main concepts required in your course and offers hundreds of practice questions to help you succeed. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines – Problem solved.

Analytical and Computational Methods in Electromagnetics Alpha Science International, Limited

Updated to reflect recent global developments, the second edition of Globalization: A Basic Text presents an up-to-date introduction to major trends and topics relating to globalization studies. Features updates and revisions in its accessible introduction to key theories and major topics in globalization Includes an enhanced emphasis on issues relating to global governance, emerging technology, global flows of people, human trafficking, global justice movements, and global environmental sustainability

Utilizes a unique set of metaphors to introduce and explain the highly complex nature of globalization in an engaging and understandable manner Offers an interdisciplinary approach to globalization by drawing from fields that include sociology, global political economy, political science, international relations, geography, and anthropology
Written by an internationally recognized and experienced author team

Engineering Electromagnetics Oxford University Press, USA

Schaum's Outline of Electromagnetics is the perfect study aid loaded with solved problems and thorough descriptions of electromagnetics concepts, in plain English. Used along with your textbook, it helps you prepare for classroom exams, broadens your level of comprehension, and develops your intuitive problem-solving ability. Featuring hundreds of completely solved problems worked out step by step this popular Schaum's Outline shows you how to solve the kinds of problems you will find on your tests. So complete it can be used alone as an independent study course, it's also compatible with any course text. For better grades in courses covering electromagnetics you can't do better than this Schaum's Outline!

Electromagnetic Field Theory CRC Press

As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers how to pose, numerically analyze, and solve EM problems, give them the ability to expand their problem-solving skills using a variety of methods, and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems.

Solutions Manual CRC Press

Power Circuits and Electromechanics is intended to serve as a one semester introductory course in power circuits and electromechanical energy conversion. In many curricula, the traditional circuit theory course is being replaced by a course in analog processing. The students should have basic exposure to KCL, KVL and simple circuits as well as a course in field theory or electromagnetism before taking this course. The book is basically in three modules. The first module covers complex power in single and three phase circuits, analysis of magnetic circuits, mutually coupled circuits and single phase transformers. The second module, drawing upon the quasi-static approximation of magnetic field equations, develops the concepts of electromechanical energy conversion, forces of electric origin leading to the dynamics equations of motion of the electromechanical system. A brief introduction to state space modeling, static equilibrium and stability is included. The third module discusses in the energy, co-energy framework, the torque of electric origin in synchronous, induction and DC machines. In each case, the equivalent circuit for the machine for steady state operation is developed for analysis purposes. A brief discussion of single phase motors is presented at the end.

Applied Circuit Analysis Springer Science & Business Media

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.

Advanced Engineering Electromagnetics McGraw Hill Professional

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.

Schaum's Outline of Electromagnetics, Fifth Edition Oxford University Press, USA

Respected for its accuracy, its smooth and logical flow of ideas, and its clear presentation, 'Field and Wave Electromagnetics' has become an established textbook in the field of electromagnetics. This book builds the electromagnetic model using an axiomatic approach in steps: first for static electric fields, then for static magnetic fields, and finally for time-varying fields leading to Maxwell's equations.