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Electromagnetics-John Daniel Kraus 1999 This book is a classic and has been one of the traditional market leaders since its first publication in 1953. In this revision, the authors have made some drastic changes to keep pace with the transformation that has been going on in the curriculum over the past few years. In many schools this course has gone from a two-semester course to a one-semester course. In the fifth edition, transmission lines and other practical applications are addressed early in the text and the coverage of electrostatics is reduced to make this book suitable for a one-semester course. This text provides flexibility in that the core material is provided in the first five chapters with supplementary material that may be used as desired in the remaining chapters. This text is unique in having hundreds of real-world examples accompanied by problems of varying difficulty. Additionally, this book covers numerical techniques and contains useful computer programs and projects to afford students the opportunity to gain direct experience in the use of electromagnetic software and hardware. This text is accompanied by a website containing projects, recent developments in the field, and demonstrations of electromagnetic principles.

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Electromagnetics-John D. Kraus 1992

Engineering Electromagnetics-Nathan Ida

A Student's Guide to Vectors and Tensors-Daniel A. Fleisch 2011-09-22 Vectors and tensors are among the most powerful problem-solving tools available, with applications ranging from mechanics and electromagnetics to general relativity. Understanding the nature and application of vectors and tensors is critically important to students of physics and engineering. Adopting the same approach used in his highly popular A Student's Guide to Maxwell's Equations, Fleisch explains vectors and tensors in plain language. Written for undergraduate and beginning graduate students, the book provides a thorough grounding in vectors and vector calculus before transitioning through contra and covariant components to tensors and their applications. Matrices and their algebra are reviewed on

the book's supporting website, which also features interactive solutions to every problem in the text where students can work through a series of hints or choose to see the entire solution at once. Audio podcasts give students the opportunity to hear important concepts in the book explained by the author. A Student's Guide to Maxwell's Equations-Daniel Fleisch 2008-01-10 Gauss's law for electric fields, Gauss's law for magnetic fields, Faraday's law, and the Ampere-Maxwell law are four of the most influential equations in science. In this guide for students, each equation is the subject of an entire chapter, with detailed, plain-language explanations of the physical meaning of each symbol in the equation, for both the integral and differential forms. The final chapter shows how Maxwell's equations may be combined to produce the wave equation, the basis for the electromagnetic theory of light. This book is a wonderful resource for undergraduate and graduate courses in electromagnetism and electromagnetics. A website hosted by the author at www.cambridge.org/9780521701471 contains interactive solutions to every problem in the text as well as audio podcasts to walk students through each chapter.

Antennas-Yi Huang 2008-09-15 Practical, concise and complete reference for the basics of modern antenna design Antennas: from Theory to Practice discusses the basics of modern antenna design and theory. Developed specifically for engineers and designers who work with radio communications, radar and RF engineering, this book offers practical and hands-on treatment of antenna theory and techniques, and provides its readers the skills to analyse, design and measure various antennas. Key features: Provides thorough coverage on the basics of transmission lines, radio waves and propagation, and antenna analysis and design Discusses industrial standard design software tools, and antenna measurement equipment, facilities and techniques Covers electrically small antennas, mobile antennas, UWB antennas and new materials for antennas Also discusses reconfigurable antennas, RFID antennas, Wide-band and multi-band antennas, radar antennas, and MIMO antennas Design examples of various antennas are provided Written in a practical and concise manner by authors who are experts in antenna design, with experience from both academia and industry This book will be an invaluable resource for engineers and designers working in RF engineering, radar and radio communications, seeking a comprehensive and practical introduction to the basics of antenna design. The book can also be used as a textbook for advanced students entering a profession in this field.

A Student's Guide to Waves-Daniel Fleisch 2015-04-09 Written to complement course textbooks, this book focuses on the topics that undergraduates in physics and engineering find most difficult.

Introductory Electromagnetics-Zoya B. Popović 2000 Modern Introductory Electromagnetics relates physical principles to engineering practice with a number of application deriving mathematical tools from physical concepts when needed.

Electromagnetics Explained-Ron Schmitt 2002-05-27 Introduction and Survey of the Electromagnetic Spectrum; Fundamentals of Electric Fields; Fundamentals of Magnetic Fields; Electrodynamics; Radiation; Relativity and Quantum Physics; The Hidden Schematic; Transmission Lines; Waveguides and Shields; Circuits as Guides for Waves and S-Parameters; Antennas: How to Make Circuits That Radiate; EMC (Part I: Basics, Part II: PCB Techniques, Part III: Cabling); Lenses, Dishes, and Antenna Arrays; Diffraction; Frequency Dependence of Materials, Thermal Radiation, and Noise; Electrical Engineering Book Recommendations; Index.

Electromagnetic Waves-David H. Staelin 1994 This introduction to electromagnetic waves emphasizes concepts, examples, and problem-solving techniques having wide applicability, and relies only on basic physics and mathematics — rather than electrostatics, magnetostatics, and quasistatics. The focus is on generic problem-solving techniques — both mathematical and physically-intuitive, and the presentation of basic electromagnetic theorems — Poynting, energy, uniqueness, and reciprocity — explained from a physical perspective. Progresses from simple wave propagation in unbounded free space to antenna and resonator design. Presents the fundamental concepts of plane waves, phasors, polarization, energy, power, and force early — and repeatedly applies them throughout the text to problems with progressively more complex boundary conditions. For students and practicing engineers interested in electromagnetic wave phenomena.

Electromagnetic Field Theory and Transmission Lines-Raju, G. S. N. Electromagnetic Field Theory and Transmission Lines is ideal for a single semester, first course on Electromagnetic Field Theory (EMFT) at the undergraduate level. This book uses diagrammatic representations and real life examples to explain the fu

A Student's Guide to the Mathematics of Astronomy-Daniel Fleisch 2013-08-29 Plain-language explanations and a rich set of supporting material help students understand the mathematical concepts and techniques of astronomy.

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.

Big Ear Two-John Daniel Kraus 1995 Big ear two is the new, much enlarged second edition of Big ear, bringing the fascinating story of Big Ear up-to-date.

Microstrip and Printed Antennas: Applications-Based Designs-Anil Pandey 2019-03-31 This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas. Over 70 antenna projects, along with design dimensions, design flows and antenna performance results are discussed, including antennas for wireless communication, 5G antennas and beamforming. Examples of smartphone antennas, MIMO antennas, aerospace and satellite remote sensing array antennas, automotive antennas and radar systems and many more printed antennas for various applications are also included. These projects include design dimensions and parameters that incorporate the various techniques used by industries and academia. This book is intended to serve as a practical microstrip and printed antenna design guide to cover various real-world applications. All Antenna projects discussed in this book are designed, analyzed and simulated using full-wave electromagnetic solvers. Based on several years of the author's research in antenna design and development for RF and microwave applications, this book offers an in-depth coverage of practical printed antenna design methodology for modern applications.

Electromagnetics-Edward J. Rothwell 2018-10-03 Providing an ideal transition from introductory to advanced concepts, Electromagnetics, Second Edition builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies, research, and applications. This second edition of a popular text continues to offer coverage that spans the entire field, from electrostatics to the integral solutions of Maxwell's equations. The book provides a firm grounding in the fundamental concepts of electromagnetics and bolsters understanding through the use of classic examples in shielding, transmission lines, waveguides, propagation through various media, radiation, antennas, and scattering. Mathematical appendices present helpful background information in the areas of Fourier transforms, dyadics, and boundary value problems. The second edition adds a new and extensive chapter on integral equation methods with applications to guided waves, antennas, and scattering. Utilizing the engaging style that made the first edition so appealing, this second edition continues to emphasize the most enduring and research-critical electromagnetic principles.

Problems & Solutions In Electromagnetics-Hayt

Antennas-John Daniel Kraus 2002 This is an exciting revision of John Kraus' classic book Antennas, which has been long known as the "Antenna Bible". A new co-author, Ronald Marhefka has joined the author team for this revision. Many new, modern applications have been added-thus the title change to Antennas with All Applications. As well, the references have been updated to include recent additions to the literature. Additionally, the book has been reorganized to make it more user-friendly for both students and professionals. The book now covers the fundamentals of various antennas and concepts in the first half of the book and then gets into more details on those same topics later in the book. This allows a one-semester course to just cover the fundamentals if desired, and a professional to focus on advanced topics if he or she wants.

Conceptual Electromagnetics-Branislav M. Notaroš 2017-07-06 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.

Electromagnetic Waves-Umran S. Inan 2000 This book includes - how electromagnetic concepts are important to modern electrical engineering applications; more examples and problems than competing books; footnotes and biographies; an intuitive and progressive approach; covers topics in order of increasing complexity; emphasis on physical understanding and clarity - without sacrificing rigor and completeness; detailed examples, selected application examples, abundant illustrations, and numerous end-of-chapter problems emphasizing practical applications; historical notes, abbreviated biographies, and hundreds of footnotes.

Antenna Theory and Applications-Hubregt J. Visser 2012-01-17 This comprehensive text on antenna theory explains the origin of radiation and discusses antenna parameters in-depth This book offers an in-depth coverage of fundamental antenna theory, and shows how to apply this in practice. The author discusses electromagnetic radiation and antenna characteristics such as impedance, radiation pattern, polarization, gain and efficiency. In addition, the book provides readers with the necessary tools for analyzing complex antennas and for designing new ones. Furthermore, a refresher chapter on vector algebra, including gradient, divergence and curl operation is included. Throughout the book ample examples of employing the derived theory are given and all chapters are concluded with problems, giving the reader the opportunity to test his/her acquired knowledge. Key Features: Covers the mathematical and physical background that is needed to understand electromagnetic radiation and antennas Discusses the origin of radiation and provides an in-depth explanation of antenna parameters Explores all the necessary steps in antenna analysis allowing the reader to understand and analyze new antenna structures Contains a chapter on vector algebra, which is often a stumbling block for learners in this field Includes examples and a list of problems at the end of each chapter Accompanied by a website containing solutions to the problems (for instructors) and CST modeling files (www.wiley.com/go/visser_antennas) This book will serve as an invaluable reference for advanced (last year Bsc, Msc) students in antenna and RF engineering, wireless communications, electrical engineering, radio engineers and other professionals needing a reference on antenna theory. It will also be of interest to advanced/senior radio engineers, designers and developers.

Microwave Engineering, 3Rd Ed-David M.Pozar 2009-09 This classic text provides a thorough coverage of RF and microwave engineering concepts based on fundamental principles of electrical engineering and applied to microwave circuits and devices of practical importance. Coverage includes microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers. A large number of examples and end-of-chapter problems test the reader's understanding of the material. · Electromagnetic Theory · Transmission Line Theory · Transmission Lines and Waveguides · Microwave Network Analysis · Impedance Matching and Tuning · Microwave Resonators · Power Dividers and Directional Couplers · Microwave Filters · Theory and Design of Ferrimagnetic Components · Noise and Active RF Components · Microwave Amplifier Design · Oscillators and Mixers · Introduction to Microwave 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.

RFID Handbook-Syed A. Ahson 2017-12-19 Radio Frequency Identification (RFID) tagging is now used by the department of defense and many of the world's largest retailers including Wal-Mart. As RFID continues to infiltrate industries worldwide, organizations must harness a clear understanding of this technology in order to maximize its potential and protect against the potential risks it poses. The RFID Handbook provides an overview of RFID technology, its associated security and privacy risks, and recommended practices that will enable organizations to realize productivity improvements while also protecting sensitive information and the privacy of individuals. Expert contributors present a host of applications including RFID enabled automated receiving, triage with RFID for massive incidents, RFID and NFC in relation to mobile phones, and RFID technologies for communication robots and a privacy preserving video surveillance system. The unprecedented coverage also includes detailed descriptions of adaptive splitting protocols as well as tree-based and probabilistic anti-collision protocols. Drawing on its distinguished editors and world-renowned contributors, this one-of-a-kind handbook serves as the ultimate reference on RFID, from

basic research concepts to future applications.

Conceptual Electromagnetics-Branislav M. Notaroš 2017-07-06 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.

Fundamentals of Engineering Electromagnetics-Sunil Bhooshan 2012-07-12 Fundamentals of Engineering Electromagnetics is designed for an undergraduate course in electromagnetism for students of electrical and electronics and communication engineering. The book aims to provide students with understanding of the fundamentals of electromagnetic fields and their applications in electrical engineering and related domains.

Last Romanov-Dora Levy Mossanen 2012-04-01 She was an orphan, ushered into the royal palace on the prayers of her majesty. Yet, decades later, her time spent in the embrace of the Romanovs haunts her still. Is she responsible for those murderous events that changed everything? If only she can find the heir, maybe she can put together the broken pieces of her own past-maybe she can hold on to the love she found.

Essentials of Radio Wave Propagation-Christopher Haslett 2008 If you need to maximize efficiency in wireless network planning, an understanding of radio propagation issues is vital, and this 2007 reference guide is for you. Using real-world case studies, practical problems and minimum mathematics, the author explains simply and clearly how to predict signal strengths in a variety of situations. Fundamentals are explained in the context of their practical significance. Applications, including point-to-point radio links, broadcasting and earth-space communications, are thoroughly treated, and more sophisticated methods, which form the basis of software tools for both network planning and spectrum management, are also described. For a rapid understanding and insight into radio propagation, sufficient to enable you to undertake real-world engineering tasks, this concise book is invaluable for network planners, hardware designers, spectrum managers, senior technical managers and policy makers who are either new to radio propagation or who need a quick reference guide.

Antenna Theory and Design-Warren L. Stutzman 2012-05-22 Stutzman's 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a greater emphasis on computational methods. New features include additional modern material to make the text more exciting and relevant to practicing engineers; new chapters on systems, low-profile elements and base station antennas; organizational changes to improve understanding; more details to selected important topics such as microstrip antennas and arrays; and expanded measurements topic.

Engineering Electromagnetics-Umran 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.

Antenna Theory-Constantine A. Balanis 1996-06-12 The Latest Resource for the Study of Antenna Theory! In a discipline that has experienced vast technological changes, this text offers the most recent look at all the necessary topics. Highlights include: * New coverage of microstrip antennas provides information essential to a wide variety of practical designs of rectangular and circular patches, including computer programs. * Applications of Fourier transform (spectral)

method to antenna radiation. * Updated material on moment methods, radar cross section, mutual impedances, aperture and horn antennas, compact range designs, and antenna measurements. A New Emphasis on Design! Balanis features a tremendous increase in design procedures and equations. This presents a solid solution to the challenge of meeting real-life situations faced by engineers. Computer programs contained in the book-and accompanying software-have been developed to help engineers analyze, design, and visualize the radiation characteristics of antennas.

Engineering Electromagnetics and Waves, Global Edition-Aziz Inan 2015-07-31 For courses in Electromagnetic Fields & Waves. Electromagnetic Waves continues the applied approach used in the authors' successful Engineering Electromagnetics. The second book is appropriate for a second course in Electromagnetics that covers the topic of waves and the application of Maxwell's equations to electromagnetic events.

Pulsed Electric Fields Technology for the Food Industry-Javier Raso-Pueyo 2010-04-30 Many novel technologies have been proposed in the attempt to improve existing food processing methods. Among emerging nonthermal technologies, high intensity pulsed electric fields (PEF) is appealing due to its short treatment times and reduced heating effects. This book presents information accumulated on PEF during the last 15 years by experienced microbiologists, biochemists, food technologists, and electrical and food engineers.

A Student's Guide to the Schrödinger Equation-Daniel A. Fleisch 2020-02-20 A clear guide to the key concepts and mathematical techniques underlying the Schrödinger equation, including homework problems and fully worked solutions.

Fundamentals of Nanoelectronics-George W. Hanson 2008 For undergraduate courses in nanoelectronics. This is the first actual nanoelectronics textbook for undergraduate engineering and applied sciences students. It provides an introduction to nanoelectronics, as well as a self-contained overview of the necessary physical concepts — taking a fairly gentle but serious approach to a field that will be extremely important in the near future.

Fundamentals of Electromagnetics with MATLAB-Karl Erik Lonngren 2007-01-01 This second edition comes from your suggestions for a more lively format, self-learning aids for students, and the need for applications and projects without being distracted from EM Principles. Flexibility Choose the order, depth, and method of reinforcing EM Principles—the PDF files on CD provide Optional Topics, Applications, and Projects. Affordability Not only is this text priced below competing texts, but also the topics on CD (and downloadable to registered users) provide material sufficient for a second term of study with no additional book for students to buy. MATLAB This book takes full advantage of MATLAB's power to motivate and reinforce EM Principles. No other EM books is better integrated with MATLAB. The second edition is even richer and easier to incorporate into course use with the new, self-paced MATLAB tutorials on the CD and available to registered users.

Introduction to Nanoelectronics-Vladimir V. Mitin 2008 Textbook presenting the fundamentals of nanoscience and nanotechnology with a view to nanoelectronics. Covers the underlying physics; nanostructures, including nanoobjects; methods for growth, fabrication and characterization of nanomaterials; and nanodevices. Provides a unifying framework for the basic ideas needed to understand the recent developments in the field. Includes numerous illustrations, homework problems and a number of interactive Java applets. For advanced undergraduate and graduate students in electrical and electronic engineering, nanoscience, materials, bioengineering and chemical engineering. Instructor solutions and Java applets available from www.cambridge.org/9780521881722.

A Treatise on Electricity and Magnetism-James Clerk Maxwell 1904 V. 1. Preliminary: On the measurement of quantities. pt. I Electrostatics ; pt. II Electrokinematics -- v. 2, pt. III. Magnetism ; pt. IV. Electromagnetism.

Basic Laws of Electromagnetism-IGOR. EVGENYEVICH IRODOV 2020-09 Key Features: Physical aspects of the phenomena are clearly explained. Multiple model representations are employed as per necessity. Problems complementing the text are extensively given. About the Book: 'Basic Laws of Electromagnetism' is a book describing the Fundamental Laws of Electromagnetism with allied examples to help and enable the readers to attain a deeper understanding of the subject and visualize the wide range of applications of the ideas discussed. The book lays emphasis on the physical aspects of the phenomena, avoiding superfluous mathematical formulae. The textbook is quite handy for the students of senior secondary and undergraduate levels, and also for various engineering and medical entrance examinations. This is newly typeset print of a 'Classical Book' in Physics.

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