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Electrical Machines John Wiley & Sons
This book is written so that it serves as a text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:- Magnetic field and Magnetic circuit Electromagnetic force and torque D.C. Machines D.C. Machines-Motoring and Generation SALIENT FEATURES:- Self-contained, self-explantary and simple to follow text. Numerous worked out examples. Well Explained theory parts with illustrations. Exercises, objective type question with answers at the end of each chapter.

Electromagnetic Field Theory Fundamentals New York ; Toronto : J. Wiley
Many women are fearful about the health of their breasts because they fail to understand their own anatomy or how to promote breast wellness. Breast health requires knowledge about the risks of radiation, safe screening technologies, such as radiation-free thermography and ultrasound, the role of environmental estrogen disruptors, and easy ways to avoid daily exposure to chemical toxins. Thermography and the Fibrocystic and Dense Breast introduces clear medical choices that will increase the chances for maintaining healthy breasts. There is additional information on making healthy lifestyle choices to lower breast cancer risks through scientifically confirmed plant-based supplementation and detoxification advice. The book focuses upon prevention and empowering women to take responsibility for their own breast health at a time when trust in American health care is decreasing.

Theory of Alternating-current Machinery Cambridge University Press
Including examples and problems throughout and background revision material where appropriate, this book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields. It also covers Maxwell's equations, propagation, transmission and radiation, and includes chapters on the Finite Element and Finite Difference method. A CD containing many MathCad examples is included with the book, and a comprehensive solutions set is also available. First Edition published by Brooks/Cole Publishing Co. (1997): 0-534-95504-5

Thermography and the Fibrocystic and Dense Breast Cambridge University Press

This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

Principles of Electric Machines and Power Electronics Pearson Education India
For this revision of their bestselling junior- and senior-level text, Guru & Hiziroglu have incorporated eleven years of cutting-edge developments in the field since Electric Machinery & Transformers was first published. Completely re-written, the new Second Edition also incorporates suggestions from students and instructors who have used the First Edition, making it the best text available for junior- and senior-level courses in electric machines. The new edition features a wealth of new and improved problems and examples, designed to complement the authors' overall goal of encouraging intuitive reasoning rather than rote memorization of material. Chapter 3, which presents the conversion of energy, now includes: analysis of magnetically coupled coils, induced emf in a coil rotating in a uniform magnetic field, induced emf in a coil rotating in a time-varying magnetic field, and the concept of the revolving field. All problems and examples have been rigorously tested using Mathcad.
Basic Electrical Engineering Cambridge University Press
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.
Electric Machinery and Transformers Oxford University Press, USA
Probabilistic Methods of Signal and System Analysis, 3/e stresses the engineering applications of probability theory, presenting the material at a level and in a manner ideally suited to engineering students at the junior or senior level. It is also useful as a review for graduate students and practicing engineers. Thoroughly revised and updated, this third edition incorporates increased use of the computer in both text examples and selected problems. It utilizes MATLAB as a computational tool and includes new sections relating to Bernoulli trials, correlation of data sets, smoothing of data, computer

computation of correlation functions and spectral densities, and computer simulation of systems. All computer examples can be run using the Student Version of MATLAB. Almost all of the examples and many of the problems have been modified or changed entirely, and a number of new problems have been added. A separate appendix discusses and illustrates the application of computers to signal and system analysis.

Power System McGraw-Hill Companies
The first volume ever to cover all aspects of the subject, Architectural Electromagnetic Shielding Handbook provides the practicing architect/engineer with a comprehensive guide to electromagnetic shielding. This practical handbook is a one-stop source for every form of shielding enclosure now used in commercial and government test laboratories, communication and computer centers, and electromagnetic hardened facilities designed to prevent electromagnetic interference (EMI) from reaching either a sensitive piece of equipment or an unauthorized agency. Additional features include: extensive supporting information on penetrations such as doors, vents, piping, and electromagnetic filters for each type of shielding complete descriptions of modular, welded, and architectural forms of shielding as well as design checklists for shielded enclosure installation detailed descriptions of performance specifications and methods of testing necessary to prove performance Now you can have practical design and manufacturing techniques for solving ESD problems associated with sophisticated equipment used in a home or office environment. This book takes the mystery out of ESD by showing how it is generated and how it affects electronic devices, such as integrated circuits. It provides practical guidelines and the rationale on how ESD solutions can work for you.

Molecular Gas Dynamics and the Direct Simulation of Gas Flows Oxford Series in Electrical an
This book introduces the principles of gravitational, magnetic, electrostatic, direct current electrical and electromagnetic fields, with detailed solutions of Laplace and electromagnetic wave equations by the method of separation of variables. Discussion includes behaviours of the scalar and vector potential and the nature of the solutions of these boundary value problems, along with the use of complex variables and conformal transformation, Green's theorem, Green's formula and Green's functions.

RF and Microwave Engineering CRC Press
It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country.n the revised edition some new topics have been added.Additional solved examples have also been added.The data of transmission system in India has been updated.

Instructor's Manual for Electric Machinery and Transformers
Springer Science & Business Media
Get up-to-speed on the theory, principles and design of vacuum electron devices.

Probabilistic Methods of Signal and System Analysis Courier Corporation

In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has expanded into a set of six books carefully focused on a specialized area or field of study. Each book represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Each article includes defining terms, references, and sources of further information. Encompassing the work of the world's foremost experts in their respective specialties, Systems, Controls, Embedded Systems, Energy, and Machines features the latest developments, the broadest scope of coverage, and new material on human-computer interaction.

Fundamentals of Engineering Electromagnetics Wiley
The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved

examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Elements of Electromagnetics Cambridge University Press
This second edition of a highly regarded text covers all the recent research developments in gas dynamics including the direct simulation Monte Carlo method (DSMC).

Fundamentals of Communication Systems McGraw-Hill Companies
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.

Electromagnetic Fields and Energy Cambridge University Press
The basic objective of this highly successful text--to present the concepts of electromagnetics in a style that is clear and interesting to read--is more fully-realized in this Second Edition than ever before.Thoroughly updated and revised, this two-semester approach to fundamental concepts and applications in electromagnetics begins 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.

Design of Feedback Control Systems Oxford University Press, USA
The diverse planetary environments in the solar system react in somewhat different ways to the encompassing influence of the Sun. These different interactions define the electrostatic phenomena that take place on and near planetary surfaces. The desire to understand the electrostatic environments of planetary surfaces goes beyond scientific inquiry. These environments have enormous implications for both human and robotic exploration of the solar system. This book describes in some detail what is known about the electrostatic environment of the solar system from early and current experiments on Earth as well as what is being learned from the instrumentation on the space exploration missions (NASA, European Space Agency, and the Japanese Space Agency) of the last few decades. It begins with a brief review of the basic principles of electrostatics.

Systems, Controls, Embedded Systems, Energy, and Machines CRC Press
For one- or two-semester, senior-level undergraduate courses in Communication Systems for Electrical and Computer Engineering majors. This text introduces the basic techniques used in modern communication systems and provides fundamental tools and methodologies used in the analysis and design of these systems. The authors emphasize digital communication systems, including new generations of wireless communication systems, satellite communications, and data transmission networks. A background in calculus, linear algebra, basic electronic circuits, linear system theory, and probability and random variables is assumed.

The Finite Element Method in Electromagnetics John Wiley & Sons
Covering detailed discussion of fundamental concepts of economics, the textbook commences with comprehensive explanation of theory of consumer behavior, utility maximization and optimal choice, profit function, cost minimization and cost function. The textbook covers methods including present worth method, future worth method, annual worth method, internal rate of return method, explicit re-investment rate of return method and payout method useful for studying economic studies. A chapter on value engineering discusses important topics such as function analysis systems techniques, the value index, value measurement techniques, innovative phase and constraints analysis in depth. It facilitates the understanding of the concepts through illustrations and solved problems. This text is the ideal resource for Indian undergraduate engineering students in the fields of mechanical engineering, computer science and engineering and electronics engineering for a course on engineering economics/engineering economy.

Basic Electricity John Wiley & Sons
This book begins with the physical principles involved in the operation of semiconductor components, proceeds through the physical electronics, modeling, and circuit characteristics of these components, and engages the questions and problems that arise in the computer-aided design of complex

multicomponent functional assemblies of the type found in modern integrated-
 circuit packages.