



ELECTRICAL ENGINEERING

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the electromagnetic design and control details from scratch The authors start with the introduction of electric circuit notations and elementary concepts of electrical circuits power electronics magnetostatics magnetic circuits and fundamentals of electromechanical energy conversion Later the book elaborates on the operating principles of polyphase induction machines and synchronous machines as well as the associated scale and vector controls of these machines To aid in reader comprehension the text includes a solutions manual and accompanying video animations Electric Machinery and Drives also contains information on Real and reactive power in single phase and balanced three phase circuits and devices using consumer system concepts and notations Forces and torques in simple magnetically linear and nonlinear multi excited electromechanical devices and systems Simplified T equivalent circuit model and its use in performance calculations of induction machines and associated torque slip speed characteristics Brush commutator and brushless DC machines and natural ABC frame and Park's two reaction DQO frame state space modeling of synchronous and induction machines Special machines including single phase induction machines switched reluctance machines and others Electric Machinery and Drives is an ideal learning resource in undergraduate or graduate level courses for all universities with electrical engineering programs across the world Additionally the text may be used as a fundamental reference by researchers and engineers in electrical mechanical automotive aerospace and automation engineering

A System Engineering Approach to Imaging Norman S. Kopeika, 1998 This textbook addresses imaging from the system engineering point of view examining advantages and disadvantages of imaging in various spectral regions Focuses on imaging principles and system concepts rather than devices Intended as a senior year undergraduate or graduate level engineering textbook A solution manual is included

Books in Print, 1994 **Scientific and Technical Books and Serials in Print**, 1989 **Handbook of Power Systems Engineering with Power Electronics Applications** Yoshihide Hase, 2012-11-20 Formerly known as Handbook of Power System Engineering this second edition provides rigorous revisions to the original treatment of systems analysis together with a substantial new four chapter section on power electronics applications Encompassing a whole range of equipment phenomena and analytical approaches this handbook offers a complete overview of power systems and their power electronics applications and presents a thorough examination of the fundamental principles combining theories and technologies that are usually treated in separate specialised fields in a single unified hierarchy Key features of this new edition Updates throughout the entire book with new material covering applications to current topics such as brushless generators speed adjustable pumped storage hydro generation wind generation small hydro generation solar generation DC transmission SVC SVG STATCOM FACTS active filters UPS and advanced railway traffic applications Theories of electrical phenomena ranging from DC and power frequency to lightning switching surges and insulation coordination now with reference to IEC Standards 2010 New chapters presenting advanced theories and technologies of power electronics circuits and their control theories in combination with various characteristics of power systems as well as induction generator motor

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Probability and Statistics with Reliability, Queuing, and Computer Science Applications Kishor S. Trivedi,2016-06-30 An accessible introduction to probability stochastic processes and statistics for computer science and engineering applications Second edition now also available in Paperback This updated and revised edition of the popular classic first edition relates fundamental concepts in probability and statistics to the computer sciences and engineering The author uses Markov chains and other statistical tools to illustrate processes in reliability of computer systems and networks fault tolerance and performance This edition features an entirely new section on stochastic Petri nets as well as new sections on system availability modeling wireless system modeling numerical solution techniques for Markov chains and software reliability modeling among other subjects Extensive revisions take new developments in solution techniques and applications

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Handbook of Mathematics for Engineers and Scientists

Andrei D. Polyanin,Alexander V. Manzhirov,2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

Professional Engineer ,1985

A Practical Approach to Signals and Systems D.

Sundararajan,2008-08-29 Concisely covers all the important concepts in an easy to understand way Gaining a strong sense of signals and systems fundamentals is key for general proficiency in any electronic engineering discipline and critical for specialists in signal processing communication and control At the same time there is a pressing need to gain mastery of these concepts quickly and in a manner that will be immediately applicable in the real word Simultaneous study of both continuous and discrete signals and systems presents a much easy path to understanding signals and systems analysis In A Practical Approach to Signals and Systems Sundararajan details the discrete version first followed by the corresponding continuous version for each topic as discrete signals and systems are more often used in practice and their concepts are relatively easier to understand In addition to examples of typical applications of analysis methods the author gives comprehensive coverage of transform methods emphasizing practical methods of analysis and physical interpretations of concepts Gives equal emphasis to theory and practice Presents methods that can be immediately applied Complete treatment of transform methods Expanded coverage of Fourier analysis Self contained starts from the basics and discusses applications Visual aids and examples makes the subject easier to understand End of chapter exercises with a extensive solutions manual for instructors MATLAB software for readers to download and practice on their own Presentation slides with book figures and slides with lecture notes A Practical Approach to Signals and Systems is an excellent resource for the electrical engineering student or professional to quickly gain an understanding of signal analysis concepts concepts which all electrical engineers will eventually encounter no matter what their specialization For aspiring engineers in signal processing communication and control the topics presented will form a sound foundation to their future study while allowing them to quickly move on to

more advanced topics in the area Scientists in chemical mechanical and biomedical areas will also benefit from this book as increasing overlap with electrical engineering solutions and applications will require a working understanding of signals Compact and self contained A Practical Approach to Signals and Systems be used for courses or self study or as a reference book

Classical Theory Of Electromagnetism: With Companion Solution Manual (Second Edition) Baldassare Di Bartolo, 2004-08-25 New Edition Classical Theory of Electromagnetism 3rd Edition The topics treated in this book are essentially those that a graduate student of physics or electrical engineering should be familiar with in classical electromagnetism Each topic is analyzed in detail and each new concept is explained with examples The text is self contained and oriented toward the student It is concise and yet very detailed in mathematical calculations the equations are explicitly derived which is of great help to students and allows them to concentrate more on the physics concepts rather than spending too much time on mathematical derivations The introduction of the theory of special relativity is always a challenge in teaching electromagnetism and this topic is considered with particular care The value of the book is increased by the inclusion of a large number of exercises

Books in Print Supplement ,1994

Radio-Frequency and Microwave Communication Circuits Devendra K. Misra, 2004-07-30 The products that drive the wireless communication industry such as cell phones and pagers employ circuits that operate at radio and microwave frequencies Following on from a highly successful first edition the second edition provides readers with a detailed introduction to RF and microwave circuits Throughout examples from real world devices and engineering problems are used to great effect to illustrate circuit concepts Takes a top down approach describing circuits in the overall context of communication systems Presents expanded coverage of waveguides and FT mixers Discusses new areas such as oscillators design and digital communication An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

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