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Electric Machinery And Power System Stephen J. Chapman is a leading author in the area of machines. He brings his expertise to the table again in An "Introduction to Electric Machinery and Power Systems." This text is designed to be used in a course that combines machinery and power systems into one semester.

* Selected details in a concise, all-in-one format makes electric machinery and power systems simple * Stresses using necessary calculations to solve problems rather than spending extended time explaining how to actually perform the calculations * References for further study and calculations

This book is intended for a course that combines machinery and power systems into one semester. It is designed to be flexible and to allow instructors to choose chapters a la carte, so the instructor controls the emphasis. The text gives students the information they need to become real-world engineers, focusing on principles and teaching how to use information as opposed to doing a lot of calculations that would rarely be done by a practicing engineer. The author compresses the material by focusing on its essence, underlying principles. MATLAB is used throughout the book in examples and problems.

Stephen J. Chapman is a leading author in the area of machines. He brings his expertise to the table again in An "Introduction to Electric Machinery and Power Systems." This text is designed to be used in a course that combines machinery and power systems into one semester. Chapman's new book is designed to be flexible and allow instructors to choose chapters "a la carte", sot he instructor controls the emphasis. Chapman has written a book that give students what they need to know to be real-world engineers. It focuses on principles and teaches students how to use information as opposed to do a lot of calculations that would rarely be done by a practicing engineer. He compresses the material by focusing on its essence, underlying principles. Matlab is used throughout the book in examples and problems.

"Institute of Electrical and Electronics Engineers."

The second edition of this must-have reference covers power quality issues in four parts, including new discussions related to renewable energy systems. The first part of the book provides background on causes, effects, standards, and measurements of power quality and harmonics. Once the basics are established the authors move on to harmonic modeling of power systems, including components and apparatus (electric machines). The final part of the book is devoted to power quality mitigation approaches and devices, and the fourth part extends the analysis to power quality solutions for renewable energy systems. Throughout the book worked examples and exercises provide practical applications, and tables, charts, and graphs offer useful data for the modeling and analysis of power quality issues. Provides theoretical and practical insight into power quality problems of electric machines and systems 134 practical application (example) problems with solutions 125 problems at the end of chapters dealing with practical applications 924 references, mostly journal articles and conference papers, as well as national and international standards and guidelines

Electric Machinery Fundamentals continues to be a best-selling machinery text due to its accessible, student-friendly coverage of the important topics in the field. Chapman's clear writing persists in being one of the top features of the book. Although not a book on MATLAB, the use of MATLAB has been enhanced in the fourth edition. Additionally, many new problems have been added and remaining ones modified. Electric Machinery Fundamentals is also accompanied by a website that provides solutions for instructors, as well as source code, MATLAB tools, and links to important sites for students.

Smart grids are linked with smart homes and smart meters. These smart grids are the new topology for generating, distributing, and consuming energy. If these smart devices are not connected in a smart grid, then they cannot work properly; hence, the conventional power systems are swiftly changing in order to improve the quality of electrical energy. This book covers the fundamentals of power systems—which are the pillars for smart grids—with a focus on defining the smart grid with theoretical and experimental electrical concepts. Power System Fundamentals begins by discussing electric circuits, the basic systems in smart grids, and finishes with a complete smart grid concept. The book allows the reader to build a foundation of understanding with basic and advanced exercises that run on simulation before moving to experimental results. It is intended for readers who want to comprehensively cover both the basic and advanced concepts of smart grids.

Electrical Machines primarily covers the basic functionality and the role of electrical machines in their typical applications. The effort of applying coordinate transforms is justified by obtaining a more intuitive, concise and easy-to-use model. In this textbook, mathematics is reduced to a necessary minimum, and priority is given to bringing up the system view and explaining the use and external characteristics of machines on their electrical and mechanical ports. Covering the most relevant concepts relating to machine size, torque and power, the author explains the losses and secondary effects, outlining cases and conditions in which some secondary phenomena are neglected. While the goal of developing and using machine mathematical models, equivalent circuits and mechanical characteristics persists through the book, the focus is kept on physical insight of electromechanical conversion process. Details such as the slot shape and the disposition of permanent magnets and their effects on the machine parameters and performance are also covered.

ELECTRICAL POWER PROJECTS AND FACTS considers unusual electrical power topics of interest to practical users of electrical power and to experimenters. It is a compilation of reports that were previously sold individually. Each ELECTRICAL POWER PROJECTS AND FACTS project plan and report is written in a down-to-earth and easy to understand form. Higher mathematics and complicated wiring diagrams are not used. The project plans and reports are unique. You won't find them elsewhere. CONTENTS INTRODUCTION INFORMATION 1 SAVE MONEY GENERATING ELECTRICITY? 2 HIGH VOLTAGE SUPPLY CIRCUITS 3 ELECTRIC SHOCK 4 FUSES AND CIRCUIT BREAKERS PLANS AND INFORMATION ON PRACTICAL EQUIPMENT 5 SINGLE-PHASE TO THREE-PHASE IDLER MOTOR CONVERTER 6 ASYNCHRONOUS ALTERNATOR 7 AC/DC POWER SUPPLIES PLANS AND INFORMATION ON EXPERIMENTAL EQUIPMENT 8 THERMOELECTRIC GENERATOR 9 MAGNETOHYDRODYNAMIC (MHD) PROPULSION SYSTEM 10 INDUCTION HEATER 11 VAN DE GRAAFF GENERATOR PLANS 12 ELECTROPLATING WITH COPPER GENERAL REFERENCES SOCIETIES, GROUPS OF INTEREST, AND INTERNET SITES INSTRUMENTATION NEW, USED, AND SURPLUS EQUIPMENT DEALERS USEFUL INFORMATION

This book and its accompanying CD-ROM offer a complete treatment from background theory and models to implementation and verification techniques for simulations and linear analysis of frequently studied machine systems. Every chapter of Dynamic Simulation of Electric Machinery includes exercises and projects that can be explored using the accompanying software. A full chapter is devoted to the use of MATLAB and SIMULINK, and an appendix provides a convenient overview of key numerical methods used. Dynamic Simulation of Electric Machinery provides professional engineers and students with a complete toolkit for modeling and analyzing power systems on their desktop computers.

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