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Electric machinery fundamentals / Stephen J. Chapman.

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Electric Machinery and Power System Fundamentals / Edition ...

Electric Machinery Fundamentals (Hardcover) Published August 21st 1998 by McGraw-Hill Science/Engineering/Math. Hardcover, 716 pages. Author (s): Stephen J. Chapman. ISBN: 0070119503 (ISBN13: 9780070119505) Edition language: English.

Editions of Electric Machinery Fundamentals by Stephen J ...

Stephen Chapman. 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. In the fifth edition, the use of MATLAB® continues to be incorporated in examples and problems, where applicable. The targeted and thought-provoking problems youve come to appreciate have been retained in this edition.

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Emphasizing problem-solving skills throughout, this fifth edition of Chapman's highly successful book teaches MATLAB as a technical programming language, showing students how to write clean, efficient, and well-documented programs, while introducing them to many of the practical functions of MATLAB. The first eight chapters are designed to serve as the text for an Introduction to Programming / Problem Solving course for first-year engineering students. The remaining chapters, which cover advanced topics such as I/O, object-oriented programming, and Graphical User Interfaces, may be covered in a longer course or used as a reference by engineering students or practicing engineers who use MATLAB. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In this book, modeling and control design of electric motors, namely step motors, brushless DC motors and induction motors, are considered. The book focuses on recent advances on feedback control designs for various types of electric motors, with a slight emphasis on stepper motors. For this purpose, the authors explore modeling of these devices to the extent needed to provide a high-performance controller, but at the same time one amenable to model-based nonlinear designs. The control designs focus primarily on recent robust adaptive nonlinear controllers to attain high performance. It is shown that the adaptive robust nonlinear controller on its own achieves

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reasonably good performance without requiring the exact knowledge of motor parameters. While carefully tuned classical controllers often achieve required performance in many applications, it is hoped that the advocated robust and adaptive designs will lead to standard universal controllers with minimal need for fine tuning of control parameters.

The HVDC Light[®] method of transmitting electric power. Introduces students to an important new way of carrying power to remote locations. Revised, reformatted Instructor's Manual. Provides instructors with a tool that is much easier to read. Clear, practical approach.

Easy to read and understand, MOTOR CONTROL FUNDAMENTALS, 1st Edition builds the foundation of knowledge electricians need to work with AC Induction Motors, the most common type of motor encountered in the field. Focusing on basic, single-phase, and three-phase induction motor theory and operation, the book outlines common motor control circuit schemes, and demonstrates how to read, interpret, and document motor control circuit diagrams. Readers also build essential skills with practice circuits by connecting motor control circuit components from ladder diagrams. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This seventh edition of Fitzgerald and Kingsley's Electric Machinery by Stephen Umans was developed recognizing the strength of this classic text since its first edition has been the emphasis on building an understanding of the fundamental physical principles underlying the performance of electric machines. Much has changed since the publication of the first edition, yet the basic physical principles remain the same, and this seventh edition is intended to retain the focus on these principles in the context of today's technology.

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