

Industrial Motor Control 7th Edition

This operations manual explains the basic principles of electrical power distribution, automation, and instrumentation in water distribution, treatment, and storage systems. Chapters cover hydraulic and electrical principles, electric motor controls, measurement instruments and displays, pumps and valves, and automatic and digital controls. Mastering the theory and application of electrical concepts is necessary for a successful career in the electrical installation or industrial maintenance fields, and this new fifth edition of DELMAR'S STANDARD TEXTBOOK OF ELECTRICITY delivers! Designed to train aspiring electricians, this text blends concepts relating to electrical theory and principles with practical 'how to' information that prepares students for situations commonly encountered on the job. Topics span all the major aspects of the electrical field including atomic structure and basic electricity, direct and alternating current, basic circuit theory, three-phase circuits, single phase, transformers, generators, and motors. This revision retains all the hallmarks of our market-leading prior editions and includes enhancements such as updates to the 2011 NEC, a CourseMate homework lab option, and a new chapter on industry orientation as well as tips on energy efficiency throughout the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. INDUSTRIAL MOTOR CONTROL 7E is an integral part of any electrician training.

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Comprehensive and up to date, this book provides crucial information on basic relay control systems, programmable logic controllers, and solid state devices commonly found in an industrial setting. Written by a highly qualified and respected author, you will find easy-to-follow instructions and essential information on controlling industrial motors and commonly used devices in contemporary industry. INDUSTRIAL MOTOR CONTROL 7E successfully bridges the gap between industrial maintenance and instrumentation, giving you a fundamental understanding of the operation of variable frequency drives, solid state relays, and other applications that employ electronic devices.

Packed with real-world examples, vivid illustrations, and the latest developments from the field, ELECTRICAL STUDIES FOR TRADES, 5th EDITION is ideal for current and future service technicians in air conditioning and refrigeration, construction, and facilities management--and anyone else who needs a practical knowledge of electricity. Extremely reader-friendly, the book begins with an overview of basic electricity concepts--rather than complex mathematical calculations. From here, you proceed directly to must-know information, including how to determine wire sizes and make a variety of common switch connections. Different types of electrical power panels are also examined in detail. Discussion of general wiring practices and circuit protectors, as well as an introduction to transformers and three-phase and single-phase motors, round out the comprehensive coverage. Important Notice: Media content referenced within the

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product description or the product text may not be available in the ebook version. Topics include distributed generation, energy auditing, rate structures, economic evaluation techniques, lighting efficiency improvement, HVAC optimization, combustion and use of industrial wastes, steam generation and distribution system performance, control systems and computers, energy systems maintenance, renewable energy, and industrial water management."--BOOK JACKET.

A comprehensive book on project management, covering all principles and methods with fully worked examples, this book includes both hard and soft skills for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional (PMP) qualification, this book covers in theory and practice, the complete body of knowledge for both the Project Management Institute (PMI) and the Association of Project Management (APM). Fully aligned with the latest 2005 updates to the exam syllabi, complete with online sample Q&A, and updated to include the latest revision of BS 6079 (British Standards Institute Guide to Project Management in the Construction Industry), this book is a complete and valuable reference for anyone serious about project management. â€¢The complete body of knowledge for project management professionals in the engineering, manufacturing and construction sectors â€¢Covers all hard and soft topics in both theory and practice for the newly revised PMP and APMP qualification exams, along with the latest revision of BS 6079 standard on project

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management in the construction industry. Written by a qualified PMP exam accreditor and accompanied by online Q&A resources for self-testing PRACTICAL PROBLEMS IN MATHEMATICS FOR ELECTRICIANS, 9E will give your students the math skills they need to succeed in the electrical trade. It introduces them to the important math principles through problems designed for the electrical profession and offers them an excellent opportunity to develop and practice problem-solving skills while at the same time providing a valuable review of electrical terminology. This new edition uses the same straightforward writing style and simple, step-by-step explanations that made previous editions so reader-friendly. It minimizes theory and emphasizes problem-solving techniques and practice problems. This new edition also includes updated illustrations and information for a better learning experience than ever before! The book begins with basic arithmetic and then, once these basic topics have been mastered, progresses to algebra and concludes with trigonometry. Practical problems with real-world scenarios from the electrical field are used throughout, allowing your students to apply key mathematical concepts while developing an awareness of basic electrical terms and practices. This is the perfect resource for students entering the electrical industry, or those simply looking to brush up on the necessary math. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Motor Control and Learning, Sixth Edition, focuses on observable movement behavior, the

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many factors that influence quality of movement, and how movement skills are acquired. Two books in one! Up-to-date coverage of electrical and electronics systems for all types of aircraft -- plus a full student study guide This thoroughly revised guide offers comprehensive explanations of the theory, design, and maintenance of current aircraft electrical and electronics systems. In-depth details on AC and DC systems for all varieties of aircraft—including the newest models—are provided, along with improved diagrams and helpful troubleshooting techniques. You will get complete coverage of cutting-edge topics, including digital control systems, digital data transfer methods, fiber-optic technology, and the latest flight deck instrumentation systems. A student study guide is also included, featuring a workbook with hundreds of multiple-choice, fill-in-the-blank, and analysis questions. Aircraft Electricity and Electronics, Seventh Edition, covers:

- Aircraft storage batteries
- Electric wire and wiring practices
- Alternating current
- Electrical control devices
- Digital electronics
- Electric measuring instruments
- Electric motors, generators, alternators, and inverters
- Power distribution systems
- Design and maintenance of aircraft electrical systems
- Radio theory
- Communication and navigation systems
- Weather warning and other safety systems

Now in its sixth edition, ELECTRICITY AND CONTROLS FOR HVAC-R equips readers with the information needed to work effectively with all types of motors and control devices found in the heating and air-conditioning industry. Prior knowledge of electricity is not required as this book begins with discussion of essential basic electricity and electrical circuits concepts. Numerous schematic diagrams and step-by-step troubleshooting procedures are included to acquaint readers with all of the different types of circuits commonly encountered in the HVAC-R field. Important Notice: Media content referenced within the product description or the

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product text may not be available in the ebook version.

Instrumentation and Process Control is a comprehensive resource that provides a technician-level approach to instrumentation used in process control. With an emphasis on common industrial applications, this textbook covers the four fundamental instrumentation measurements of temperature, pressure, level, and flow, in addition to position, humidity, moisture, and typical liquid and gas measuring instruments. Fundamental scientific principles, detailed illustrations, descriptive photographs, and concise text are used to present the following instrumentation topics: Process control and factory automation measurement instruments and applications; Control valves and other final elements; Digital communication systems and controllers; Overview of control strategies for process control; Safety systems and installation in hazardous locations and; Systems approach to integration of instruments in process control.

INDUSTRIAL MOTOR CONTROL 7E is an integral part of any electrician training. Comprehensive and up to date, this book provides crucial information on basic relay control systems, programmable logic controllers, and solid state devices commonly found in an industrial setting. Written by a highly qualified and respected author, you will find easy-to-follow instructions and essential information on controlling industrial motors and commonly used devices in contemporary industry. INDUSTRIAL MOTOR CONTROL 7E successfully bridges the gap between industrial maintenance and instrumentation, giving you a fundamental understanding of the operation of variable frequency drives, solid state relays, and other applications that employ electronic devices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind, Maintenance Engineering Handbook has long been a staple for engineers, managers, and technicians seeking current advice on everything from tools and techniques to planning and scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed. Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: Belt Drives, provided by the Gates Corporation Repair and Maintenance Cost Estimation Ventilation Fans and Exhaust Systems 10 New Chapters on Maintenance of Mechanical Equipment Inside: • Organization and Management of the Maintenance Function • Maintenance Practices • Engineering and Analysis Tools • Maintenance of Facilities and Equipment • Maintenance of Mechanical Equipment • Maintenance of Electrical Equipment • Instrumentation and Reliability Tools • Lubrication • Maintenance Welding • Chemical Corrosion Control and Cleaning

Now in its fourth edition, Electricity and Controls for HVAC/R equips readers with the information needed to work effectively with all types of motors and control devices found in the heating and air conditioning industry. Prior knowledge of electricity is not required as this book begins with discussion of essential basic electricity and electrical circuits concepts. Numerous schematic diagrams, plus step-by-step troubleshooting procedures, are included to acquaint readers with all of the different types of circuits commonly encountered in the HVAC-R field. With an emphasis on electrical safety, plus an all-new troubleshooting unit, this edition of

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Electricity and Controls for HVAC/R also features expanded information on thermostats, short cycle timers, heat pressure controls for refrigeration, variable frequency drives, and more! Interest in permanent magnet synchronous machines (PMSMs) is continuously increasing worldwide, especially with the increased use of renewable energy and the electrification of transports. This book contains the successful submissions of fifteen papers to a Special Issue of Energies on the subject area of “Permanent Magnet Synchronous Machines”. The focus is on permanent magnet synchronous machines and the electrical systems they are connected to. The presented work represents a wide range of areas. Studies of control systems, both for permanent magnet synchronous machines and for brushless DC motors, are presented and experimentally verified. Design studies of generators for wind power, wave power and hydro power are presented. Finite element method simulations and analytical design methods are used. The presented studies represent several of the different research fields on permanent magnet machines and electric drives.

Experienced product designers are increasingly expected to be adept at incorporating a range of components into their designs. Students and experimenters too need to look beyond basic circuits and devices to achieve adequate design solutions. For those experienced in engineering design, this is

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the guide to electric motors. This book will allow engineers and designers to marry the technologies they know about with motor technology, and hence to incorporate motors into their products. Of the many good books on motors, such as *Electric Motors and Drives* by Hughes, none offer the engineering professional a tailored guide to motors taking into account their expertise. This book fills that gap. Irving Gottlieb is a leading author of many books for practising engineers, technicians and students of electronic and electrical engineering. Practical approach with minimum theory Covers a core area ignored by many electronics texts Shows how to incorporate motors into electronic products

This book has been written for a course of study that will introduce the reader to a broad range of motor types and control systems. It provides an overview of electric motor operation, selection, installation, control and maintenance. Every effort has been made in this second edition to present the most up-to-date information which reflects the current needs of the industry. The broad based approach taken makes this text viable for a variety of motors and control systems courses. Content is suitable for colleges, technical institutions, vocational/technical schools as well as apprenticeship and journeymen training. Electrical apprentices and journeymen will find this book to be invaluable due to Electrical Code references applicable to the installation of new control systems

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and motors, as well as information on maintenance and troubleshooting techniques. Personnel involved in the motor maintenance and repair will find this book to be a useful reference text. The text is comprehensive! It includes coverage of how motors operate in conjunction with their associated control circuitry. Both older and newer motor technologies are examined. Topics covered range from motor types and controls to installing and maintaining conventional controllers, electronic motor drives and programmable logic controllers. Also Available! Activities Manual for Electric Motors and Control Systems, as well as, McGraw-Hill Education's Connect! Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, and how they need it, so that your class time is more engaging and effective. **SAVE WHEN YOU BUY A PACKAGE! Electric Motors & Control Systems 2/e Textbook + Activities Manual ISBN: 1259332837 WILL BE AVAILABLE FEBRUARY 2015**

Twort's Water Supply, Seventh Edition, has been expanded to provide the latest tools and techniques to meet engineering challenges over dwindling natural resources. Approximately 1.1 billion people in rural and peri-urban communities of developing countries do not have access to safe drinking water. The mortality from diarrhea-related diseases amounts to 2.2 million people each year from the

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consumption of unsafe water. This update reflects the latest WHO, European, UK, and US standards, including the European Water Framework Directive. The book also includes an expansion of waste and sludge disposal, including energy and sustainability, and new chapters on intakes, chemical storage, handling, and sampling. Written for both professionals and students, this book is essential reading for anyone working in water engineering. Features expanded coverage of waste and sludge disposal to include energy use and sustainability Includes a new chapter on intakes Includes a new chapter on chemical storage and handling

This text broke ground with its thorough coverage of molecular physiology seamlessly integrated into a traditional homeostasis-based systems approach. This edition introduces a major reorganisation of the early chapters to provide the best foundation for the course and new art features that streamline review and essential topics so that students can access them more easily on an as-needed basis.

Motor control is a relatively young field of research exploring how the nervous system produces purposeful, coordinated movements in its interaction with the body and the environment through conscious and unconscious thought. Many books purporting to cover motor control have veered off course to examine

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biomechanics and physiology rather than actual control, leaving a gap in the literature. This book covers all the major perspectives in motor control, with a balanced approach. There are chapters explicitly dedicated to control theory, to dynamical systems, to biomechanics, to different behaviors, and to motor learning, including case studies. Reviews current research in motor control
Contains balanced perspectives among neuroscience, psychology, physics and biomechanics
Highlights controversies in the field
Discusses neurophysiology, control theory, biomechanics, and dynamical systems under one cover
Links principles of motor control to everyday behaviors
Includes case studies delving into topics in more detail

Your students will be able to install, troubleshoot, and test electrical motors like the pros! UNDERSTANDING MOTOR CONTROLS, 2ND Edition uses a real-world systems approach to learning motor control devices. Starting with basic control circuits and components, this book covers all must-know applications and procedures to ensure reader success in the more complex topics. From development and installation to testing and troubleshooting, UNDERSTANDING MOTOR CONTROLS, 2ND Edition prepares future industrial electricians with a solid foundation in basic control circuits, sensing devices, solid-state controls, variable speed drives, programmable logic controllers (PLCs), and more.

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"With new examples and the incorporation of MATLAB problems, the fourth edition gives comprehensive coverage of topics not found in any other texts." (Midwest).
The HVDC Light[trademark] 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.

Basic electricity. Control circuits. Motors. Transformers. Control components.
Troubleshooting using control schematics. Ice maker and refrigeration controls.

THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING
For more than a century, the Standard Handbook for Electrical Engineers has served as the definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers. It offers comprehensive information on the generation, transmission, distribution, control, operation, and application of electric power. Completely revised throughout to address the latest codes and standards, the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids, smart meters, renewable energy, and cogeneration plants. Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed. Featuring hundreds of detailed illustrations and

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contributions from more than 75 global experts, this state-of-the-art volume is an essential tool for every electrical engineer. Standard Handbook for Electrical Engineers, 16th Edition, covers: Units, symbols, constants, definitions, and conversion factors * Electric and magnetic circuits * Measurements and instruments * Properties of materials * Generation * Prime movers * Alternating-current generators * Direct-current generators * Hydroelectric power generation * Power system components * Alternate sources of power * Electric power system economics * Project economics * Transmission systems * High-voltage direct-current power transmission * Power system operations * Substations * Power distribution * Wiring design for commercial and industrial buildings * Motors and drives * Industrial and commercial applications of electric power * Power electronics * Power quality and reliability * Grounding systems * Computer applications in the electric power industry * Illumination * Lightning and overvoltage protection * Standards in electrotechnology, telecommunications, and information technology

Electric power engineering education traditionally covers safety of the power equipment and systems. Little attention, if any, is given to the safety of people. When they reach professional status, most power engineers are not familiar with electric safety issues such as practices governing site works or grounding techniques of dwellings, hospitals, and factories. Designed for both electrical engineering student and practicing power engineers, Electric Safety: Practice and Standards provides the knowledge and

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analysis they need to be well versed in electric safety. Features: Includes techniques to assess safety practices at worksites and provides remedies to correct safety problems Addresses the elusive stray voltage problem and provides techniques to mitigate its impact in dwellings as well as in sensitive installations such as hospitals and dairy farms Provides approximate, yet accurate, analyses and techniques that can be used to assess electric safety without the need for extensive computation or elaborate programs Includes several case studies from real events and examples demonstrating how variations in electric safety procedure implementation influence safety levels Based on the authors' years of experience as an expert witness and electric safety training instructor, the book covers the analysis of electric safety practices as well as the interpretations of various safety codes. Including homework problems and a solutions manual, this book is a comprehensive guide to recognize and eliminate hazards of electric shocks for professionals working on electric power equipment, as well as people such as the general public in commonly used places, farms workers and animals, and hospital patients.

Induction motors are the most important workhorses in industry. They are mostly used as constant-speed drives when fed from a voltage source of fixed frequency. Advent of advanced power electronic converters and powerful digital signal processors, however, has made possible the development of high performance, adjustable speed AC motor drives. This book aims to explore new areas of induction motor control based on

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artificial intelligence (AI) techniques in order to make the controller less sensitive to parameter changes. Selected AI techniques are applied for different induction motor control strategies. The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations. The control strategies explored include expert-system-based acceleration control, hybrid-fuzzy/PI two-stage control, neural-network-based direct self control, and genetic algorithm based extended Kalman filter for rotor speed estimation. There are also chapters on neural-network-based parameter estimation, genetic-algorithm-based optimized random PWM strategy, and experimental investigations. A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques. Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book's Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives, electric vehicles, and electric ship propulsion. Graduate students in intelligent control, applied electric motion, and energy, as well as engineers in industrial electronics, automation, and electrical transportation, will also find this book helpful. Simulation materials available for download at www.wiley.com/go/chanmotor

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INDUSTRIAL MAINTENANCE, Second Edition, provides a strong foundation in all five major areas of industrial maintenance, including general, mechanical, electrical, welding, and preventive maintenance. In addition to essential information on safety, tools, industrial print reading, and electrical theory, this comprehensive text includes a detailed exploration of modern machinery and equipment to help you understand, diagnose, troubleshoot, and maintain a wide variety of industrial machines. This text has also been thoroughly updated and revised to reflect recent developments in this dynamic, rapidly evolving field, including current piping and fluid power symbols, rigging and mechanical installations, magnetism, transformers, motors and sensors, and industrial communications. With comprehensive, up-to-date coverage and a reader-friendly, modular presentation, INDUSTRIAL MAINTENANCE is the perfect resource to prepare you for success as an industrial maintenance technician. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This best-selling introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design, and revised to feature a more accessible approach — without sacrificing depth.

A Fully Updated, Practical Guide to Automated Process Control and Measurement Systems This thoroughly revised guide offers students a solid grounding in process control principles along with real-world applications and insights from the factory floor.

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Written by an experienced engineering educator, Fundamentals of Industrial Instrumentation and Process Control, Second Edition is written in a clear, logically organized manner. The book features realistic problems, real-world examples, and detailed illustrations. You'll get clear explanations of digital and analog components, including pneumatics, actuators, and regulators, and comprehensive discussions on the entire range of industrial processes. Fundamentals of Industrial Instrumentation and Process Control, Second Edition covers:•Pressure•Level•Flow•Temperature and heat•Humidity, density, viscosity, & pH•Position, motion, and force•Safety and alarm•Electrical instruments and conditioning•Regulators, valves, and actuators•Process control•Documentation and symbol standards•Signal transmission•Logic gates•Programmable Logic controllers•Motor control•And much more

Annotation A comprehensive guide to the technology underlying drives, motors and control units, this title contains a wealth of technical information for the practising drives and electrical engineer.

Mathematical Statistics with Applications in R, Second Edition, offers a modern calculus-based theoretical introduction to mathematical statistics and applications. The book covers many modern statistical computational and simulation concepts that are not covered in other texts, such as the Jackknife, bootstrap methods, the EM algorithms, and Markov chain Monte Carlo (MCMC) methods such as the Metropolis algorithm,

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Metropolis-Hastings algorithm and the Gibbs sampler. By combining the discussion on the theory of statistics with a wealth of real-world applications, the book helps students to approach statistical problem solving in a logical manner. This book provides a step-by-step procedure to solve real problems, making the topic more accessible. It includes goodness of fit methods to identify the probability distribution that characterizes the probabilistic behavior or a given set of data. Exercises as well as practical, real-world chapter projects are included, and each chapter has an optional section on using Minitab, SPSS and SAS commands. The text also boasts a wide array of coverage of ANOVA, nonparametric, MCMC, Bayesian and empirical methods; solutions to selected problems; data sets; and an image bank for students. Advanced undergraduate and graduate students taking a one or two semester mathematical statistics course will find this book extremely useful in their studies. Step-by-step procedure to solve real problems, making the topic more accessible Exercises blend theory and modern applications Practical, real-world chapter projects Provides an optional section in each chapter on using Minitab, SPSS and SAS commands Wide array of coverage of ANOVA, Nonparametric, MCMC, Bayesian and empirical methods

Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical

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control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

This up-to-date book provides a comprehensive introduction to the principles of motor control and motor learning. The authors integrate knowledge from the fields of cognitive psychology and neuroscience to provide readers with a more complete understanding of the multilevel processes that contribute to the acquisition and control of movement skills. Each section of the book introduces the most important theoretical models in each particular area, followed by theoretical principles and illustrations with practical examples drawn from movement, skill, and clinical settings. The breadth of the practical applications will appeal to readers preparing to enter professions that require a strong knowledge of motor control and learning principles. Movement, skill, cognitive psychology, neuroscience, transfer of motor learning, contemporary motor control theories, measurement techniques, application of theory, real-life aspects of motor control and learning. For all readers interested in issues relating to motor learning and control.

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