

Electrical Engineering Concepts And Applications

Electrical engineering is a field that studies the principles and applications of electricity and the technology that has been developed around it. This book elucidates new techniques and their applications in a multidisciplinary approach. It consists of contributions made by international experts. It seeks to provide comprehensive information dealing with the various sub-disciplines of electrical engineering and the technological advancements in these areas of study. Detailed information is provided in a simple and analytical manner. For all readers who are interested in electrical and electronic engineering, the case studies included in this book will serve as excellent guide to develop a comprehensive understanding. Learn how to master the Web through this advanced guide to the ins and outs of HTML, the lingua franca of the Internet. This knowledge-packed how-to reference will equip you with the ammunition necessary to create powerful Web pages through the latest HTML innovations such as Style Sheets and Document Types. In covering the entire HTML spectrum, this book will appeal to beginners who are looking for a good grounding in HTML, experts who need a complete and in-depth reference, and those who are simply looking to stay on the cutting edge of Web technologies. Fuzzy logic has vast applications in power and electrical engineering. This collection is the first book to cover research advancements in the application of fuzzy logic in the planning and operation of smart grids. A global group of researchers and scholars present innovative approaches to fuzzy-based smart grid planning and operation, cover theoretical concepts and experimental results of the application of fuzzy-based techniques, and define and apply these techniques to deal with smart grid issues. Applications of Fuzzy Logic in Planning and Operation of Smart Grids is an ideal resource for researchers on the theory and application of fuzzy logic, practicing engineers working in electrical power engineering and power system planning, and post-graduates and students in advanced graduate-level courses. CD-ROMs contains: 2 CDs, "one contains the Student Edition of LabView 7 Express, and the other contains OrCAD Lite 9.2." Principles and Applications of Electrical Engineering Practical Electrical Engineering Applications of Computing, Automation and Wireless Systems in Electrical Engineering

Concepts and Applications

Intended for an introductory course in materials science or metallurgy for all engineering students, this text provides complete coverage of the subject. The emphasis is on basic concepts of structure/property/performance relations and on applications to a wide variety of engineering fields.

The Newnes Know It All Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb. Guaranteed not to gather dust on a shelf! Electrical engineers need to master a wide area of topics to excel. The Electrical Engineering Know It All covers every angle including Real-World Signals and Systems, Electromagnetics, and Power systems. A 360-degree view from our best-selling authors Topics include digital, analog, and power electronics, and electric circuits The ultimate hard-working desk reference; all the essential information, techniques and tricks of the trade in one volume Many, in their quest for knowledge in engineering, find typical textbooks intimidating. Perhaps due to an extensive amount of physics theory, an overwhelming barrage of math, and not enough practical application of the engineering principles, laws, and equations. Therein lies the difference between this text and those voluminous and daunting conventional university engineering textbooks. This text leads the reader into more complex and abstract content after explaining the electrical engineering concepts and principles in an easy to understand fashion, supported by analogies borrowed from day-to-day examples and other engineering disciplines. Many complex electrical engineering concepts, for example, power factor, are examined from multiple perspectives, aided by diagrams, illustrations, and examples that the reader can easily relate to. Throughout this book, the reader will gain a clear and strong grasp of electrical engineering fundamentals, and a better understanding of electrical engineering terms, concepts, principles, laws, analytical techniques, solution strategies, and computational techniques. The reader will also develop the ability to communicate with professional electrical engineers, controls engineers, and electricians on their "wavelength" with greater confidence. Study of this book can help develop skills and preparation necessary for succeeding in the electrical engineering portion of various certification and licensure exams, including Fundamentals of Engineering (FE), Professional Engineering (PE), Certified Energy Manager (CEM), and many other trade certification tests. This text can serve as a compact and simplified electrical engineering desk reference. This book provides a brief introduction to the NEC®, the Arc-Flash Code, and a better understanding of electrical energy and associated cost. If you need to gain a better understanding of myriad battery alternatives available in the market, their strengths and weaknesses, and how batteries compare with capacitors as energy storage devices, this book can be a starting point. This book is ideal for engineers, engineering students, facility managers, engineering managers, program/project managers, and other executives who do not possess a current working knowledge of electrical engineering. Because of the simple explanations, analogies, and practical examples employed by the author, this book serves as an excellent learning tool for non-engineers, technical writers, attorneys, electrical sales professionals, energy professionals, electrical equipment procurement agents, construction managers, facility managers, and maintenance managers.

This book discusses key concepts, challenges and potential solutions in connection with established and emerging topics in advanced computing, renewable energy and network communications. Gathering edited papers presented at MARC 2018 on July 19, 2018, it will help researchers pursue and promote advanced research in the fields of electrical engineering, communication, computing and manufacturing.

Solutions Manual [for] Electrical Engineering

Electrical and Electronic Devices, Circuits, and Materials

Concepts and Applications: Solutions Manual

Masteringengineering with Pearson Etext -- Access Card -- For Electrical Engineering: Concepts and Applications

Introduction, Concepts and Applications

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Electrical engineering is a branch of engineering which deals with the study of electromagnetism, electricity and electronics. It is an overarching field and includes various subfields like radio-frequency engineering, power engineering, signal processing, telecommunications, microelectronics, digital computers, control systems, instrumentation and radio-frequency engineering, etc. This book aims to provide detailed information about this vast subject. It gives thorough insights into the various subfields of this area. It is a valuable compilation of topics, ranging from the basic to the most complex theories and principles in the field of electrical engineering. Such selected concepts that redefine this field have been presented in this textbook. Different approaches, evaluations and methodologies on electrical engineering have been included in it. This textbook is meant for students who are looking for an elaborate reference text on this field. For courses in Electrical Engineering. The #1 title in its market, Electrical Engineering: Principles and Applications helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. This book covers circuit analysis, digital systems, electronics, and electromechanics at a level appropriate for either electrical-engineering students in an introductory course or non-majors in a survey course. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession. The only essential prerequisites are basic physics and single-variable calculus. The 7th Edition features technology and content updates throughout the text.

System Dynamics for Engineering Students

Electrical Measurements

Basic Electronics

Microelectronics and Signal Processing

Fault Current Limiters

Compiled chapters from the following books: Electrical Engineering - Concepts and applications by S.A. Reza Zekavat; Networking by Jeffrey S. Beasley; Electrical Engineering - Principles & Applications by Allan R. Hambley; Digital Design - Principles and practices by John F. Wakerly.

For undergraduate introductory or survey courses in electrical engineering. ELECTRICAL ENGINEERING: PRINCIPLES AND APPLICATIONS, 5/e helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. Circuit analysis, digital systems, electronics, and electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession.

Engineering system dynamics focuses on deriving mathematical models based on simplified physical representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving these models for analysis or design purposes. System Dynamics for Engineering Students: Concepts and Applications features a classical approach to system dynamics and is designed to be utilized as a one-semester system dynamics text for upper-level undergraduate students with emphasis on mechanical, aerospace, or electrical engineering. It is the first system dynamics textbook to include examples from compliant (flexible) mechanisms and micro/nano electromechanical systems (MEMS/NEMS). This new second edition has been updated to provide more balance between analytical and computational approaches; introduces additional in-text coverage of Controls; and includes numerous fully solved examples and exercises. Features a more balanced treatment of mechanical, electrical, fluid, and thermal systems than other texts Introduces examples from compliant (flexible) mechanisms and MEMS/NEMS Includes a chapter on coupled-field systems Incorporates MATLAB® and Simulink® computational software tools throughout the book Supplements the text with extensive instructor support available online: instructor's solution manual, image bank, and PowerPoint lecture slides NEW FOR THE SECOND EDITION Provides more balance between analytical and computational approaches, including integration of Lagrangian equations as another modelling technique of dynamic systems Includes additional in-text coverage of Controls, to meet the needs of schools that cover both controls and system dynamics in the course Features a broader range of applications, including additional applications in pneumatic and hydraulic systems, and new applications in aerospace, automotive, and bioengineering systems, making the book even more appealing to mechanical engineers Updates include new and revised examples and end-of-chapter exercises with a wider variety of engineering applications

Acclaimed text on engineering math for graduate students covers theory of complex variables, Cauchy-Riemann equations, Fourier and Laplace transform theory, Z-transform, and much more. Many excellent problems.

Electric Concepts and Applications

Electrical Engineering Fundamentals

Principles and Applications

IT Network & Electronics Technology

Technological Challenges and Solutions

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This book, which is divided into twelve chapters, aims to present the reader with an introduction to the electrical characterization of materials, specifically solid materials. In this book, the reader will find both theoretical and experimental concepts of some methods that can be used to know and understand physically the electrical response of different materials. In this project, a theoretical scan is made of several experimental techniques that characterize materials at the level of dc and ac conductivity. In ac conductivity, several approaches are presented from techniques in the low frequency regime (i.e., in the range of the radio frequencies) up to the regime of higher frequencies (i.e., in the range of microwaves). An introductory analysis of dielectric relaxation phenomena through the impedance spectroscopy as well as the phenomena of thermally stimulated polarization and depolarization are discussed. In preparing this book, each contributor was asked to present in the end of each chapter a small, but specific case study, with the purpose of facilitating the transposition of the methods and theories presented for a real case. This approach is a valuable part of this book, which includes analyses of different types of materials with structures, forms and electrical responses, from glasses, ceramics, and biomaterials to photoactive materials with potential use in photovoltaic cells.

This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- For undergraduate introductory or survey courses in electrical engineering A clear introduction to electrical engineering fundamentals Electrical Engineering: Principles and Applications, 6e helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. Circuit analysis, digital systems, electronics, and electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession. NEW: This edition is now available with MasteringEngineering, an innovative online program created to emulate the instructor's office--hour environment, guiding students through engineering concepts from Electrical Engineering with self-paced individualized coaching. 0133413985 / 9780133413984 Electrical Engineering: Principles & Applications Plus MasteringEngineering with Pearson eText -- Access Card Package Package consists of: 0133116646 / 9780133116649 Electrical Engineering: Principles & Applications 0133405621 / 9780133405620 MasteringEngineering with Pearson eText -- Standalone Access Card -- for Electrical Engineering: Principles & Applications Note: MasteringEngineering is not a self-paced technology and should only be purchased when required by an instructor.

Electrical and Electronic Engineering

Principles and Applications Plus MasteringEngineering with Pearson EText -- Access Card Package

Basic Electrical Engineering for Engineering

Greek Art and Archaeology

Basic Concepts of Electrical Engineering

This book presents a comprehensive survey of fault current limiters (FCLs) and their applications in power system to cope with the fault current. The book reviews characteristics, technologies, topologies, working principles, applications, and the interaction of FCLs with the power system. In the attempts to develop FCL with close to ideal attributes, academic researchers and companies offer the different configurations that are mostly classified into non-superconducting fault current limiters and superconducting fault current limiters (SFCLs). Both categories are included in this book, and therefore, it can serve as an excellent stepping-stone for senior and/or graduate students who are interested in knowing the reason of the increase in short circuit level in the power system, fault current limitation measures, benefits and drawbacks of the application of FCLs in power systems, the state-of-the-art of fault current limitation techniques, as well as recent advances in this area.

This text introduces basic concepts of electrical engineering in four general areas: circuits, electronics, information systems and energy systems.... The text is written at a level suitable for students who have completed at least one term of college physics and mathematics. -Pref.

Basic Electrical Engineering is a core course for the first-year students of all engineering disciplines across the country. This course enables them to apply the basic concepts of Electrical engineering for multi-disciplinary tasks, and also lays the foundation for higher level courses in electrical and electronics engineering degrees. An established hallmark, this revised edition of the book continues to dwell on all the key concepts and applications in the field and covers the subject in its entirety. Curated with great care, it provides an unmatched exposure to fundamentals of Electricity, Network theory, Electric machines, and Measuring instruments. Rich pool of problems and appendices enhance the utility of the book and make it a lasting resource for students as well as instructors. Highlights: 1. Complete coverage of latest AICTE curriculum 2. New chapters on * Renewable Energy Sources * Semiconductor devices and their applications * DC-DC converters and Inverters * Digital Electronics and Communication Engineering 3. New appendices on * Electrical Safety * Applications of Electrical motors * Components of cells and battery * Switch Mode Power Supply (SMPS) and Uninterruptible Power Supply (UPS) 4. Supports outcome-based learning approach Basic Electrical Engineering has been written as a core course for all engineering students viz. electronics and communication engineering, computer engineering, civil engineering, mechanical engineering etc. Since this course will normally be offered at the first year level of engineering, the author has made modest effort to give in a concise form, various features of Basic Electrical Engineering using simple language and thorough solved examples, avoiding the rigor of mathematics. This book deals with the fundamentals of electrical engineering concepts like design & application of circuitry, equipment for power generation & distribution and machine control. The increasing requirement for Junior Engineers/technicians in PSUs has created a large job opportunities for the diploma holders all over India. Every PSU conducts its own Qualifying exam Based on the vacancies available for various positions such as Junior Engineer and Technician. This series has been thoroughly updated to equip the diploma engineers appearing for the exams of BHEL, BEL, gail, IOCL, HPCL, ONGC, DMRC, DRDO, Railway, Staff Selection Commission and other diploma engineering competitive examinations. It aids in fast revision through key notes such as terms, definitions and formulae. The series also provides conceptual clarity to ease in attempting questions. A vast collection of questions has been categorized under two levels-- questions for practice and Previous Years' questions of various PSU examinations to give you a feel of the actual exam. Features theory and key concepts in a systematically manner ample number of MCQs for practice in each br>Chapter previous years' questions to familiarize you with the pattern and level of the examination.

The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical, electronic, and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and practical applications that will appeal to all engineering students.

Advanced Concepts and Applications

Electrical Engineering for Non-electrical Engineers

Basic Electrical Engineering - a Basic Knowledge of Electrical Engineering

Electrical Engineering for Non-Electrical Engineers, Second Edition

Electrical Engineering: Concepts and Applications

For undergraduate introductory or survey courses in electrical engineering A clear introduction to electrical engineering fundamentals Electrical Engineering: Principles and Applications, 6e helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. Circuit analysis, digital systems, electronics, and electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession. NEW: This edition is now available with MasteringEngineering, an innovative online program created to emulate the instructor's office-hour environment, guiding students through engineering concepts from Electrical Engineering with self-paced individualized coaching. Note: If you are purchasing the standalone text or electronic version, MasteringEngineering does not come automatically packaged with the text. To purchase MasteringEngineering, please visit: masteringengineering.com or you can purchase a package of the physical text + MasteringEngineering by searching the Pearson Higher Education website. Mastering is not a self-paced technology and should only be purchased when required by an instructor. Teaching and Learning Experience To provide a better teaching and learning experience, for both instructors and students, this program will: Individualized Coaching: Now available with MasteringEngineering, an online program that emulates the instructor's office-hour environment using self-paced individualized coaching. Engage Students: Basic concepts are presented in a general setting to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. Support Instructors and Students: A variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession.

For non-electrical engineering majors taking the introduction to electrical engineering course. Electrical Engineering: Concepts and Applications is the result of a multi-disciplinary effort at Michigan Technological University to create a new curriculum that is attractive, motivational, and relevant to students by creating many application-based problems; and provide the optimal level of both range and depth of coverage of EE topics in a curriculum package.

Software Engineering: Concepts and Applications is designed to be a readable, practical guide for software engineering students as well as practitioners who are learning software engineering as they practice it. The book presents critical insights and techniques every student heading into the software engineering job market needs to know, and many seasoned software engineers must grasp to be better at their jobs. The subject matter of each chapter is strongly motivated and has clear take-aways that a student is bound to remember and apply. A continuous case study and chapter specific exercises illustrate how each idea relates to the bigger picture and how they can be applied in practice. Common pitfalls and workarounds have also been highlighted. This book presents software engineering not as an amalgamation of dry facts, but as a living and vibrant vocation with great growth potential in the near future. It is endowed with the results and insights from the author's own research, teaching, and industry experience which will help students easily understand the concepts and skills that are so vital in the real world of software development.

Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

Everything You Should Have Learned in School...but Probably Didn't

Principles & Applications

Complex Variables and the Laplace Transform for Engineers

Materials for Engineering

Electrical Engineering 101

This book is designed to serve as a resource for exploring and understanding basic electrical engineering concepts, principles, analytical and mathematical strategies that will aid the reader in progressing their electrical engineering knowledge to intermediate or advanced levels. The study of electrical engineering concepts, principles and analysis techniques is made relatively easy for the reader by inclusion of most of the reference data, in form of excerpts from different parts of the book, within the discussion of each case study, exercise and self-assessment problem solution. This is done in an effort to facilitate quick study and comprehension of the material without repetitive search for reference data in other parts of the book. To this new edition the author has introduced a new chapter on batteries where the basic, yet important, facets of the battery and its sustainable and safe operation is covered. The reader will be shown the not-so-obvious charging and discharging performance characteristics of batteries that can be determining factors in the selection, application and optimal performance of batteries.

An earnest attempt has been made in the book 'Basic Concepts of Electrical Engineering' to elucidate the principles and applications of Electrical Engineering and also its importance, so as to evince interest on the topics so that the student gets motivated to study the subject with interest.

Electrical Engineering: Concepts and Applications Pearson Higher Ed

The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption. In addition, the increasing demand for portable devices intensifies the call from industry to design sensor elements, an efficient storage cell, and large capacity memory elements. Several industry-related issues have also forced a redesign of basic electronic components for certain specific applications. The researchers, designers, and students working in the area of electronic devices, circuits, and materials sometimes need standard examples with certain specifications. This breakthrough work presents this knowledge of standard electronic device and circuit design analysis, including advanced technologies and materials. This outstanding new volume presents the basic concepts and fundamentals behind devices, circuits, and systems. It is a valuable reference for the veteran engineer and a learning tool for the student, the practicing engineer, or an engineer from another field crossing over into electrical engineering. It is a must-have for any library.

Proceedings of MARC 2018

Electric Drives

Electrical Engineering: Know It All

Applications of Fuzzy Logic in Planning and Operation of Smart Grids

Electrical Engineering

This book covers basic electrical engineering concepts, principles, analytical, and mathematical strategies. It facilitates quick study and comprehension of the material without repetitive search for reference data in other parts of the book. It also includes an explanation of energy engineering terms, a discussion of the skills and preparation necessary for various certification and licensure exams;

explanation of the electrical engineering component of energy projects; an understanding of electrical energy cost and tips on improvement of electrical energy intensity in the industrial and commercial environment as well as providing discussion on the generation of electricity from renewal sources.

This text is designed for students majoring in mechanical, industrial, aerospace, civil, environmental, and chemical engineering (or technology) who need a fundamental understanding of electrical engineering.

A Down-to-Earth Approach James Henslin shares the excitement of sociology in Essentials of Sociology: A Down-to-Earth Approach, 11/e. With his acclaimed "down-to-earth" approach and personal writing

style, the author highlights the sociology of everyday life and its relevance to students' lives. With wit, personal reflection, and illuminating examples, Henslin stimulates students' sociological

imagination so they can better perceive how the pieces of society fit together. In addition to this trademark down-to-earth approach, other distinctive features include: comparative perspectives, the

globalization of capitalism, and visual presentations of sociology. MySocLab is an integral part of the Henslin learning program. Engaging activities and assessments provide a teaching and learning system

that helps students see the world through a sociological lens. With MySocLab, students can develop critical thinking skills through writing, explore real-world data through the new Social Explorer, and

watch the latest entries in the Core Concept Video Series. Revel from Pearson is a new learning experience designed for the way today's students read, think, and learn. Revel redesigns familiar and

respected course content and enriches it for today's students with new dynamic, rich-media interactives and assessments. The result is improved student engagement and improved learning. Revel for Henslin

will be available for Fall 2014 classes. This program will provide a better teaching and learning experience-for you and your students. It: Personalizes Learning with MySocLab: MySocLab is an online

homework, tutorial, and assessment program. It helps students prepare for class and instructor gauge individual and class performance. Explores a A Down-to-Earth Approach: This title highlights the

sociology of everyday life and its relevance to students' lives. Improves Critical Thinking: Features throughout help build critical thinking skills. Understands Social Change: An important theme of the

text, social change over time, examines what society was previously like, how it has changed, and what the implications are for the present and future. ALERT: Before you purchase, check with your

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If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from

sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase.

Introduction to Networking & Electronics

Electrical Engineering: Principles and Applications, International Edition

Software Engineering

Electrical Concepts and Applications

Electrical Engineering Masteringengineering Standalone Access Card