

Digital Design 5th Edition Chapter 4 Solution

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Chemical Engineering Design - Gavin Towler
2012-01-25

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are

flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Power Electronics - Daniel W. Hart 2011

Power Electronics is intended to be an introductory text in power electronics, primarily for the undergraduate electrical engineering student. The text is written for some flexibility in the order of the topics. Much of the text includes computer simulation using PSpice as a supplement to analytical circuit solution techniques.

Video Demystified - Keith Jack 2011-04-08
What doesn't have a video component nowadays? iPod, cell phone, computer, they all have video. And, of course, television which is a major source of our entertainment and information. Any engineer involved in designing, manufacturing, or testing video electronics needs this book! Each edition of Video Demystified has sold thousands of copies and answered many questions for electrical engineers across the globe. This fifth edition will keep the engineer up-to-date with next-generation digital video formats - Blu-ray and HD-DVD, development of new audio and video codecs - Dolby Digital Plus, DTS-HD, etc. - along with the all the latest information on HDTV, HDMI and IPTV(TV over the Internet). All broadcast, cable, and satellite standards will be updated to reflect these new codecs and specifications. The book will also aid in the design of devices and infrastructures from analog to digital television transmission - with analog transmission ceasing in early 2009 or before. *The next generation of digital video - Blu-ray and HD-DVD thoroughly introduced *All broadcast and satellite standards completely updated *Essential information for the upcoming transition of television signals from analog to digital

Introduction to Robotics in CIM Systems - James A. Rehg 1997

Addressing the use of robots for flexible automation from a manufacturing systems viewpoint, that is how robots interface with all the manufacturing hardware and software, this text discusses industrial applications and weaves a major case study throughout, allowing students to follow and join an automation design team as they work through each stage of the design process. An accompanying disk and video

provide project data. This third edition expands the number of well-documented manufacturing cases and applications, and adds a chapter on-work-cell design based on computer-integrated manufacturing (CIM) principles.

Simple Program Design - Lesley Anne Robertson 2000

"Simple Program Design" allows readers to develop sound programming skills for solving common business problems. Stressing structured programming and modular design, this book uses pseudocode as the major program design technique. Language independent explanations provide a strong foundation in program design problem solving.

The Analysis and Design of Linear Circuits - Roland E. Thomas 2006

Now with a stronger emphasis on applications and more problems, this fifth edition gives readers the opportunity to analyze, design, and evaluate linear circuits right from the start. The design examples, problems and applications provided in the book promote the development of creative and design skills.

Design of Machinery - Robert L. Norton 1999

This text provides information on the design of machinery. It presents vector mathematical and matrix solution methods for analysis of both kinetic and dynamic analysis topics, and emphasizes the use of computer-aided engineering as an approach to the design and analysis of engineering problems. The author aims to convey the art of the design process in order to prepare students to successfully tackle genuine engineering problems encountered in practice. The book also emphasizes the synthesis and design aspects of the subject with analytical synthesis of linkages covered and cam design is given a thorough and practical treatment.

Logic and Computer Design Fundamentals - M. Morris Mano 2004

Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages, synthesis and verification, this text focuses on the ever-evolving

applications of basic computer design concepts.

Terrestrial Digital Microwave

Communications - Ferdo Ivanek 1989

Contributions provide coverage of the major aspects of cost-effective implementation of high-performance digital radio-relay links. Topics include transmission performance objectives, frequency spectrum utilization framework, propagation conditions, signal processing methods and equipment design, an

Handbook for Sound Engineers - Glen Ballou 2013-05-02

Handbook for Sound Engineers is the most comprehensive reference available for audio engineers. All audio topics are explored: if you work on anything related to audio you should not be without this book! The 4th edition of this trusted reference has been updated to reflect changes in the industry since the publication of the 3rd edition in 2002 -- including new technologies like software-based recording systems such as Pro Tools and Sound Forge; digital recording using MP3, wave files and others; mobile audio devices such as iPods and MP3 players. Over 40 topics are covered and written by many of the top professionals for their area in the field, including Glen Ballou on interpretation systems, intercoms, assistive listening, and image projection; Ken Pohlmann on compact discs and DVDs; David Miles Huber on MIDI; Dr. Eugene Patronis on amplifier design and outdoor sound systems; Bill Whitlock on audio transformers and preamplifiers; Pat Brown on fundamentals and gain structures; Ray Rayburn on virtual systems and digital interfacing; and Dr. Wolfgang Ahnert on computer-aided sound system design and acoustics for concert halls.

Third Best - K. Arjun Rao 2012-03-12

Welcome to Shore Mount ? one of India's most prestigious co-ed residential schools. Here, short skirts reign and sports stars are revered, and skinny dips and sneaking girls into boys' rooms are as much a part of the curriculum as the cool Mr Gomez's literature lessons... Into this world arrives Nirvan Shrivastava, with tremendous expectations

weighing on his shoulders. After all, he's following in the footsteps of three generations of brilliant Shrivastavas immortalized on every possible honors board in the school. As he hesitatingly negotiates the crazy roller-coaster ride that is life at Shore Mount, he finds true buddies in Gautam, an unlikely musical genius obsessed with all things edible, and Faraz, the slick ladies' man. Together the boys discover that in Shore Mount survival means much more than braving the chill of heater-less dorms, or scrubbing toilets clean with toothbrushes. And as they learn to stand up to vicious bullies on and off the playing fields and survive the agony of heartaches and broken bones, they find themselves hurtling towards adulthood far sooner than they could have ever imagined...

Antennas - Yi Huang 2021-09-02

Antennas From Theory to Practice

Comprehensive coverage of the fundamentals and latest developments in antennas and antenna design In the newly revised Second Edition of *Antennas: From Theory to Practice*, renowned researcher, engineer, and author Professor Yi Huang delivers comprehensive and timely coverage of issues in modern antenna design and theory. Practical and accessible, the book is written for engineers, researchers, and students who work with radio frequency/microwave engineering, radar, and radio communications. The book details the basics of transmission lines, radiowaves and propagation, antenna theory, antenna analysis and design using industrial standard design software tools and the theory of characteristic modes, antenna measurement equipment, facilities, and techniques. It also covers the latest developments in special topics, like small and mobile antennas, wide- and multi-band antennas, automotive antennas, RFID, UWB, metamaterials, reconfigurable and MIMO antennas, and more. The new edition includes up to date information on a wide variety of newly relevant topics and trends, like adaptive impedance matching, the theory of characteristic modes, antenna materials and fabrication processes, and

over-the-air (OTA) antenna system measurements. Many questions and examples are provided which enhances the learning experience. The book covers: An introduction to circuit concepts and transmission lines, including lumped and distributed element systems, transmission line theory, and the Smith Chart An exploration of field concepts and radiowaves, including wave equations and solutions and radiowave propagation mechanisms, characteristics, and models Discussions of antenna basics and popular antennas, including wire-type antennas, aperture-type antennas, and antenna arrays Information about antenna manufacturing and measurements, including antenna measurement facilities and methods The use of industrial standard simulation tools for antenna design and analysis Perfect for engineers and researchers who work in RF engineering or radar and radio communications, *Antennas: From Theory to Practice, Second Edition* will also earn a place on the bookshelves of university students seeking a concise and practical introduction to the basics of antennas and antenna design.

An Introduction to Mechanical Engineering - Jonathan Wickert 2012-01-01

AN INTRODUCTION TO MECHANICAL ENGINEERING introduces students to the ever-emerging field of mechanical engineering, giving an appreciation for how engineers design the hardware that builds and improves societies all around the world. Intended for students in their first or second year of a typical college or university program in mechanical engineering or a closely related field, the text balances the treatments of technical problem-solving skills, design, engineering analysis, and modern technology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Graphic Design Solutions - Robin Landa 2013-01-01

Graphic Design Solutions is the most comprehensive, how-to reference on graphic design and typography. Covering print and

interactive media, this book examines conceiving, visualizing and composing solutions to design problems, such as branding, logos, web design, posters, book covers, advertising, and more. Excellent illustrations of historical, modern and contemporary design are integrated throughout. The Fifth Edition includes expanded and updated coverage of screen media, including mobile, tablet, desktop web, and motion as well as new interviews, showcases, and case studies; new diagrams and illustrations; a broader investigation of creativity and concept generation; visualization and color; and an updated timeline. Accompanying this edition, CourseMate with eBook brings concepts to life with projects, videos of designers in the field, and portfolio-building tools. Additional online-only chapters—Chapters 14 through 16—are available in PDF format on the student and instructor resource sites for this title, accessed via CengageBrain.com; search for this book, then click on the “Free Materials” tab. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Shock and Vibration Digest - 1994

Low Dielectric Constant Thin Film High Frequency Characterization Technique - Ge Song 2001

19 years GATE Electronics Engineering Chapter-wise Solved Papers (2000 - 18) with 4 Online Practice Sets 5th Edition - Disha Experts

19 years GATE Electronics & Communication Engineering Topic-wise Solved Papers (2000 - 18) The book covers fully solved past 19 years question papers from the year 2000 to the year 2018. The salient features are: The book has 3 sections - General Aptitude, Engineering Mathematics and Technical Section. Each section has been divided into Topics. Each chapter has 3 parts - Quick Revision Material, Past questions and the Solutions. The Quick Revision Material list the main points and the formulas of the chapter which will help the students in

revising the chapter quickly. The Past questions in each chapter have been divided into 5 types: 1. Conceptual MCQs 2. Problem based MCQs 3. Common Data Type MCQs 4. Linked Answer Type MCQs 5. Numerical Answer Questions The questions have been followed by detailed solutions to each and every question. In all the book contains 2000+ MILESTONE questions for GATE Electronics & Communication Engineering.

Digital Design - M. Morris Mano 2013
For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Digital Systems Design Using Verilog - Charles Roth 2015-01-01

DIGITAL SYSTEMS DESIGN USING VERILOG integrates coverage of logic design principles, Verilog as a hardware design language, and FPGA implementation to help electrical and computer engineering students master the process of designing and testing new hardware configurations. A Verilog equivalent of authors Roth and John's previous successful text using VHDL, this practical book presents Verilog constructs side-by-side with hardware, encouraging students to think in terms of desired hardware while writing synthesizable Verilog. Following a review of the basic concepts of logic design, the authors introduce the basics of Verilog using simple combinational circuit examples, followed by models for simple sequential circuits. Subsequent chapters ask readers to tackle more and more complex designs. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Model Rules of Professional Conduct - American Bar Association. House of Delegates 2007

The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

Machine Design: An Integrated Approach, 2/E - Norton 2000-09

Pressure Vessels and Piping: Analysis and Computers - I. S. Tuba 1974

Sports Marketing - Matthew D. Shank 2014-10-03

Now in a fully revised and updated 5th edition, *Sports Marketing: A Strategic Perspective* is the most authoritative, comprehensive and engaging introduction to sports marketing currently available. It is the only introductory textbook to adopt a strategic approach, explaining clearly how every element of the marketing process should be designed and managed, from goal-setting and planning to implementation and control. Covering all the key topics in the sports marketing curriculum, including consumer behavior, market research, promotions, products, pricing, sponsorship, business ethics, technology and e-marketing, the book introduces core theory and concepts, explains best practice, and surveys the rapidly-changing, international sports business environment. Every chapter contains extensive real-world case studies and biographies of key industry figures and challenging review exercises which encourage the reader to reflect critically on their own knowledge and professional practice. The book's companion website

offers additional resources for instructors and students, including an instructors' guide, test bank, presentation slides and useful weblinks. *Sports Marketing: A Strategic Perspective* is an essential foundation for any sports marketing or sports business course, and an invaluable reference for any sports marketing practitioner looking to improve their professional practice.

Digital Design - M. Morris Mano 2002

For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & *Digital Design*, fourth edition is a modern update of the classic authoritative text on digital design. & This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Linear Control System Analysis and Design - Constantine H. Houpis 2003-08-14

Thoroughly classroom-tested and proven to be a valuable self-study companion, *Linear Control System Analysis and Design: Fifth Edition* uses in-depth explanations, diagrams, calculations, and tables, to provide an intensive overview of modern control theory and conventional control system design. The authors keep the mathematics to a minimum while stressing real-world engineering challenges.

Completely updated and packed with student-friendly features, the Fifth Edition presents a wide range of examples using MATLAB® and TOTAL-PC, as well as an appendix listing MATLAB functions for optimizing control system analysis and design. Eighty percent of the problems presented in the previous edition have been revised to further reinforce concepts necessary for current electrical, aeronautical, astronautical, and mechanical applications.

Computer Organization, Design, and Architecture, Fifth Edition - Sajjan G. Shiva 2013-12-20

Suitable for a one- or two-semester undergraduate or beginning graduate

course in computer science and computer engineering, *Computer Organization, Design, and Architecture, Fifth Edition* presents the operating principles, capabilities, and limitations of digital computers to enable the development of complex yet efficient systems. With 11 new sections and four revised sections, this edition takes students through a solid, up-to-date exploration of single- and multiple-processor systems, embedded architectures, and performance evaluation. See What's New in the Fifth Edition Expanded coverage of embedded systems, mobile processors, and cloud computing Material for the "Architecture and Organization" part of the 2013 IEEE/ACM Draft Curricula for Computer Science and Engineering Updated commercial machine architecture examples The backbone of the book is a description of the complete design of a simple but complete hypothetical computer. The author then details the architectural features of contemporary computer systems (selected from Intel, MIPS, ARM, Motorola, Cray and various microcontrollers, etc.) as enhancements to the structure of the simple computer. He also introduces performance enhancements and advanced architectures including networks, distributed systems, GRIDs, and cloud computing. Computer organization deals with providing just enough details on the operation of the computer system for sophisticated users and programmers.

Often, books on digital systems' architecture fall into four categories: logic design, computer organization, hardware design, and system architecture. This book captures the important attributes of these four categories to present a comprehensive text that includes pertinent hardware, software, and system aspects.

Engineering Education - 1984

Digital Design and Computer Architecture - Sarah Harris 2015-04-09

Digital Design and Computer Architecture: ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM

microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works. Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. The companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two-quarter sequence in digital logic and computer organization/architecture. Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Features side-by-side examples of the two most prominent Hardware Description Languages (HDLs)—SystemVerilog and VHDL—which illustrate and compare the ways each can be used in the design of digital systems. Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques. The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

Steel Structures - Charles G. Salmon 1990
Presents the background needed for

developing and explaining design requirements. This edition (the first was 1971) reflects the formal adoption by the American Institute of Steel Construction of a specification for Load and Resistance Factor Design. For beginning and more advanced undergraduate courses in steel structures. Annotation copyrighted by Book News, Inc., Portland, OR

Digital Design - John F. Wakerly 2002-07
Appropriate for a first or second course in digital logic design. This newly revised book blends academic precision and practical experience in an authoritative introduction to basic principles of digital design and practical requirements in both board-level and VLSI systems. With over twenty years of experience in both industrial and university settings, the author covers the most widespread logic design practices while building a solid foundation of theoretical and engineering principles for students to use as they go forward in this fast moving field.

Radical Solutions and eLearning - Daniel Burgos 2020-05-22

Educational Technology is the right couple to a radical innovation. Thanks to the appropriate technology in the right context with the best fit to the target audience, education can be drastically improved, meaning a better performance, competence achievement, match with the user's expectations and with the market needs. Serious games, Virtual reality, Augmented reality, Remote labs, Online learning, Blockchain, Mobile learning and many other key technologies allow for a better explanation of so many subjects, and even more: for a complete student involvement and a full teacher engagement into the educational system. Technology gives another angle to the same content, provides the user with a personalised experience and pushes the limits of knowledge a little further, every time. This book presents a number of radical innovations through technology, from experienced cases studies, to be replicated and inspired by; a powerful resource handbook for cutting-edge education.

Computer Organization and Design

RISC-V Edition - David A. Patterson
2017-05-12

The new RISC-V Edition of Computer Organization and Design features the RISC-V open source instruction set architecture, the first open source architecture designed to be used in modern computing environments such as cloud computing, mobile devices, and other embedded systems. With the post-PC era now upon us, Computer Organization and Design moves forward to explore this generational change with examples, exercises, and material highlighting the emergence of mobile computing and the Cloud. Updated content featuring tablet computers, Cloud infrastructure, and the x86 (cloud computing) and ARM (mobile computing devices) architectures is included. An online companion Web site provides advanced content for further study, appendices, glossary, references, and recommended reading. Features RISC-V, the first such architecture designed to be used in modern computing environments, such as cloud computing, mobile devices, and other embedded systems Includes relevant examples, exercises, and material highlighting the emergence of mobile computing and the cloud

Structural Steel Design - Jack C. McCormac 1995

the undergraduate course in structural steel design using the Load and Resistance Factor Design Method (LRFD). The text also enables practicing engineers who have been trained to use the Allowable Stress Design procedure (ASD) to change easily to this more economical and realistic method for proportioning steel structures. The book comes with problem-solving software tied to chapter exercises which allows student to specify parameters for particular problems and have the computer assist them. On-screen information about how to use the software and the significance of various problem parameters is featured. The second edition reflects the revised steel specifications (LRFD) of the American Institute of Steel Construction.

VLSI Design and Test for Systems

Dependability - Shojiro Asai 2018-07-20

This book discusses the new roles that the VLSI (very-large-scale integration of semiconductor circuits) is taking for the safe, secure, and dependable design and operation of electronic systems. The book consists of three parts. Part I, as a general introduction to this vital topic, describes how electronic systems are designed and tested with particular emphasis on dependability engineering, where the simultaneous assessment of the detrimental outcome of failures and cost of their containment is made. This section also describes the related research project "Dependable VLSI Systems," in which the editor and authors of the book were involved for 8 years. Part II addresses various threats to the dependability of VLSIs as key systems components, including time-dependent degradations, variations in device characteristics, ionizing radiation, electromagnetic interference, design errors, and tampering, with discussion of technologies to counter those threats. Part III elaborates on the design and test technologies for dependability in such applications as control of robots and vehicles, data processing, and storage in a cloud environment and heterogeneous wireless telecommunications. This book is intended to be used as a reference for engineers who work on the design and testing of VLSI systems with particular attention to dependability. It can be used as a textbook in graduate courses as well. Readers interested in dependable systems from social and industrial-economic perspectives will also benefit from the discussions in this book.

The Aeronautical Journal - 1971

Linear Control System Analysis and Design with MATLAB®, Sixth Edition - Constantine H. Houppis 2013-10-30

Thoroughly classroom-tested and proven to be a valuable self-study companion, Linear Control System Analysis and Design: Sixth Edition provides an intensive overview of modern control theory and conventional control system design using in-depth

explanations, diagrams, calculations, and tables. Keeping mathematics to a minimum, the book is designed with the undergraduate in mind, first building a foundation, then bridging the gap between control theory and its real-world application. Computer-aided design accuracy checks (CADAC) are used throughout the text to enhance computer literacy. Each CADAC uses fundamental concepts to ensure the viability of a computer solution. Completely updated and packed with student-friendly features, the sixth edition presents a range of updated examples using MATLAB®, as well as an appendix listing MATLAB functions for optimizing control system analysis and design. Over 75 percent of the problems presented in the previous edition have been revised or replaced.

Choice - Richard K. Gardner 1976

Samurai Armour - Trevor Absolon
2017-11-30

For beauty, precision and strength, nothing has ever matched the combination of form and function found in the armour of the samurai. For a samurai, the consummate warrior, his suit of armour was so much more than 'just' protective equipment that could save his life in the heat of battle – it was the embodiment of his personality, social status and very soul. This volume, the first in a two-part series on the armour of the samurai, traces first the history of the samurai themselves and then examines the history and evolution of the cuirass or dou, the armour protecting the samurai's chest. Drawing on over 20 years of research and technical work by Trevor Absolon, a leading expert, this is a complete study of this

fundamental aspect of samurai armour construction. Illustrated throughout with photographs and diagrams, this is more than just a detailed technical exploration, it is a meditation on a process that was, and still is, nothing short of an art form.

Computer Organization and Design - David A. Patterson 2021

Just Enough Programming Logic and Design - Joyce Farrell 2012-02-02

Find exactly what you need to introduce your students to the fundamentals of programming logic with Farrell's direct, efficient JUST ENOUGH PROGRAMMING LOGIC AND DESIGN, 2E. This unique, language-independent approach to logic provides seven chapters focused on key programming and logic content in a concise format that helps readers progress through the subject matter quickly. Students study introductory concepts, structure, decision-making, looping, array manipulation, and calling methods as well as an introduction to object-oriented programming. Everyday examples and clear explanations in this edition's streamlined presentation make this a perfect choice for students with no prior programming experience. Twenty-five brief new videos from the author expand upon and clarify topics, while new Debugging Exercises and a wealth of review and programming exercises in each chapter help students hone their coding and programming skills. Use this concise approach alone or as a companion text in any programming language course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.