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Seller Inventory No. 15589 Details about this seller Contact this seller Instructor Resources Student Resources Printed 54.99 Buy e-book 45.83 Buy updated with modern coverage, streamlined presentation, and excellent companion software, this seventh edition of FUNDAMENTALS LOGIC OF DESIGN OF DESIGN achieves once again an unrivalled balance between theory and application. Authors Charles H. Roth Jr. and Larry L. Kinney carefully present the theory that is needed to understand the fundamental concepts of design logic, not overwhelming students with math switching theory. Divided into 20 easy-to-capture pieces of research, the book covers such fundamental concepts as Boolean algebra, logical gate design, flip-flops and government machines. By combining flip-flops with logical gate networks, students will learn how to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and VHDL equipment description language. 1. Introduction of number plates and conversions. 2. Bulean algebra. 3. Bulean algebra (continued). 4. Use boolean algebra minterm and maximum extensions. 5. Maps of Carno. 6. The method of quin-McCluskey. 7. Multi-level gate chains. 8. Combined circuit design and simulation using the use of 9. Multiplexers, decoders and programmable logic devices. 10. Introduction to VHDL. 11. Latch and flip-flops. Registers and counters. Analysis of clock-like schemes. The conclusion of government schedules and tables. 15. Reducing the public appointment of tables. 16. The design of a sequential chain. 17. VHDL for consistent logic. 18. Arithmetic schemes. 19. Design of the state machine with SM diagrams. 20. VHDL for digital systems design. Recently added an introduction to asynchronous circuits. The material on the presentation of negative numbers has been reorganized, which made it possible to easily omit the discussion about the issue of its addition and the scale of the sign. A recently reorganized discussion of switching algebra and buila algebra with a clearer distinction between the two. The gates of NAND and NOR are now represented earlier in the text. Added new content to carry adders. Extended discussion of hazard detection in tiered diagrams. Alternative multiplexer implementations are now available using different gate types, as well as smaller multiplexers to implement larger ones. The contents of the closed SR lats are now included with a focus on limiting input changes and how it relates to hazards. Alternative implementations of closed latches such as Earle latch are also included. Now includes more complex examples of design inside the device on a sequential chain design. The additional Verilog supplement is available online for courses using Verilog's hardware descriptive language. Balances the basic theory of switching schemes and how to apply it, giving students a clear understanding of key concepts and how to apply them to problems. Contains a built-in Self Study Guide at the beginning of each chapter, containing the reading of assignments and the study of the questions that prepare students to make the most of their reading. Includes modeling or laboratory exercises along with specially designed LogicAid and SimuAid design and modeling software that provides opportunities to develop the logic of the circuit and then test its performance. Charles H. Roth, Jr. at the University of Texas, Austin Charles Roth is an emeritus professor in electrical engineering and computer engineering at the University of Texas at Austin, where he has taught digital design for more than four decades. In addition to this successful book, Dr. Roth is a co-author of DIGITAL SYSTEMS DESIGN USING VHDL AND DIGITAL SYSTEMS DESIGN USING VERILOG. Larry L. Kinney of the University of Minnesota Larry L. Kinney is a professor and director of undergraduate studies at the University of Minnesota. He received his doctorate in electrical engineering from the University of Iowa. His research focused on digital system and digital computer design, in particular, methods of simultaneous error detection, logic testing and design, distributed computer systems, computer detection of errors/correcting codes and the use of microprocessors. The book has a good balance of fundamental techniques and tools used in designing diagrams and modern technologies, such as programmable devices. Computer design and modeling software, free with a book, is very useful for students. The treatment is pretty comprehensive and the book adequately covers all the main topics. I would say with certainty that a lot of thought has been given to make sure that the student goes through the entire process of digital design in a way that is easy to understand and follow. Examples are well-chosen, aimed at easy understanding of the material. The authors approach perfectly overall. I particularly like the study guide at the beginning of each chapter. The basics of logical design, Extended Edition, 7th Edition Digital Systems Design Using VHDL, International Edition, 3rd Edition OF EIS: Maintenance of Electrical Systems, 2nd Edition of EIS: Search and Diagnosis of Faults, 2nd Edition of EIS: Inspection Tests and Commissioning, 2nd Edition of EIS: Discontinuation and Connection of Conductors, 2nd Edition of EIS: Planning and Selection for Electrical Systems, 2nd Edition OF EIS Installation of systems: Design principles, Installation and Maintenance, 2nd Edition OF EIS: Organization and Work Environment Management, 2nd Edition Basics of Design Logic - with CD tutorials (en) Buy computer science textbooks and technology tutorials (en) System Theory, Analysis and Design Tutorials Summary Author Bio Table Content Digital Rights Updated with Modern Coverage, Streamlined Presentation, and Excellent Companion Software, this seventh edition of FUNDAMENTALS LOGIC OF DESIGN achieves a different perspective. Authors Charles H. Roth Jr. and Larry L. Kinney carefully present the theory that is needed to understand the fundamental concepts of design logic, not overwhelming students with math switching theory. Divided into 20 easy-to-capture pieces of research, the book covers such fundamental concepts as Boolean algebra, logical gate design, flip-flops and government machines. By combining flip-flops with logical gate networks, students will learn how to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and VHDL equipment description language. The maximum number of products that can be compared is 4. Please clarify your choice. Updated with a modern coating, streamlined presentation, and excellent companion software, this seventh edition of FUNDAMENTALS OF LOGIC DESIGN achieves once again an unrivalled balance between theory and application. Authors Charles H. Roth Jr. and Larry L. Kinney carefully present the theory that is needed to understand the fundamental concepts of design logic, not overwhelming students with math switching theory. Divided into 20 easy-to-capture training units, the book covers such notions like Boolean algebra, the logical design of the gate, the gate, the and government cars. By combining flip-flops with logical gate networks, students will learn how to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and VHDL equipment description language. 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