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Digital Logic and Computer Design

M. Morris Mano

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Computer Logic Design 1st Edition

Alan B. Marcovitz

Computer Logic Design 1st Edition:

Computer Logic John Y. Hsu,2012-12-06 An understanding of modern computer logic incorporating core knowledge of number systems number conversions Boolean algebra memories and logic circuits is fundamental to further study of computer architectures system software and computer networks Computer Logic Design Principles and Applications introduces and describes the relevant concepts principles and applications of modern computer logic design The book is self contained with an introductory chapter that concisely covers the history of computing devices as well as number systems number conversions signed and unsigned integers external code and digital and digitizing concepts Dedicated chapters on Boolean algebra transistor circuits combinatorial logic circuits and sequential logic circuits round off the work The emphasis is on design and applications **Digital Logic Circuit Analysis and Design** Victor Peter Nelson,1995 For introductory digital logic design or computer engineering courses in electrical and computer engineering or computer science at the sophomore or junior level Many recent texts place instructors in the difficult position of choosing between authoritative state of the art coverage and an approach that is highly supportive of student learning This carefully developed text was widely praised by reviewers for both its great clarity and its rigor The book balances theory and practice in depth without getting bogged down in excessive technical or mathematical language and has abundant coverage of current topics of interest such as programmable devices computer aided design and testability An unusually large number of illustrations examples and problems help students gain a solid sense of how theory underlies practice **Digital Logic Circuit Analysis and Design [rental Edition]** Victor P Nelson,Bill D Carroll,H Troy Nagle,David Irwin,2020-02-18 This print textbook is available for students to rent for their classes The Pearson print rental program provides students with affordable access to learning materials so they come to class ready to succeed Balance breadth and depth of coverage with practical real world design methods Digital Logic Circuit Analysis and Design provides an authoritative state of the art approach to the fundamentals of digital logic analysis and design that is highly supportive of student learning The book balances theory and practice in depth without getting bogged down in excessive technical or mathematical language Retaining its tradition of both clarity and rigor the 2nd Edition features extensive coverage of current topics of interest such as modeling with Verilog and VHDL design with programmable devices and computer aided design Filled with updated illustrations examples and problems this text helps students gain a solid sense of how theory underlies practice This title is also available digitally as a standalone Pearson eText Contact your Pearson rep for more information *Introduction to Logic Design* Alan B. Marcovitz,2010 This book is intended as an introductory logic design book for students in computer science computer engineering and electrical engineering It has no prerequisites although the maturity attained through an introduction to engineering course or a first programming course would be helpful Fundamentals of Logic Design Charles H. Roth, Jr.,Larry L. Kinney,Eugene B. John,2020 Master the principles of logic design with the exceptional balance of theory and application found in Roth Kinney

John s FUNDAMENTALS OF LOGIC DESIGN ENHANCED 7th Edition This edition introduces you to today s latest advances The authors have carefully developed a clear presentation that introduces the fundamental concepts of logic design without overwhelming you with the mathematics of switching theory Twenty engaging easy to follow study units present basic concepts such as Boolean algebra logic gate design flip flops and state machines You learn to design counters adders sequence detectors and simple digital systems After mastering the basics you progress to modern design techniques using programmable logic devices as well as VHDL hardware description language Computer Logic Design M. Morris Mano,1983 **Computer Organization and Design** David A. Patterson,John L. Hennessy,2004-08-07 This best selling text on computer organization has been thoroughly updated to reflect the newest technologies Examples highlight the latest processor designs benchmarking standards languages and tools As with previous editions a MIPs processor is the core used to present the fundamentals of hardware technologies at work in a computer system The book presents an entire MIPS instruction set instruction by instruction the fundamentals of assembly language computer arithmetic pipelining memory hierarchies and I O A new aspect of the third edition is the explicit connection between program performance and CPU performance The authors show how hardware and software components such as the specific algorithm programming language compiler ISA and processor implementation impact program performance Throughout the book a new feature focusing on program performance describes how to search for bottlenecks and improve performance in various parts of the system The book digs deeper into the hardware software interface presenting a complete view of the function of the programming language and compiler crucial for understanding computer organization A CD provides a toolkit of simulators and compilers along with tutorials for using them For instructor resources click on the grey companion site button found on the right side of this page This new edition represents a major revision New to this edition Entire Text has been updated to reflect new technology 70% new exercises Includes a CD loaded with software projects and exercises to support courses using a number of tools A new interior design presents defined terms in the margin for quick reference A new feature Understanding Program Performance focuses on performance from the programmer s perspective Two sets of exercises and solutions For More Practice and In More Depth are included on the CD Check Yourself questions help students check their understanding of major concepts Computers In the Real World feature illustrates the diversity of uses for information technology More detail below **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1974 **Introduction to Digital Logic Design** John Patrick Hayes,1993 Textbook *Handbook of Digital Techniques for High-Speed Design* ,2007-09 **Fundamentals of Logic Design, Enhanced Edition, Loose-Leaf Version** Jr. Charles H. Roth,Larry L. Kinney,Eugene B. John,2020 *Theoretical Computer Science* Oded Goldreich,Arnold L. Rosenberg,2006-03-22 This volume commemorates Shimon Even one of founding fathers of Computer Science in Israel who passed away on May 1 2004 This Festschrift contains research contributions surveys and educational essays in theoretical

computer science written by former students and close collaborators of Shimon The essays address natural computational problems and are accessible to most researchers in theoretical computer science **Information Communication Technologies: Concepts, Methodologies, Tools, and Applications** Van Slyke, Craig,2008-04-30 The rapid development of information communication technologies ICTs is having a profound impact across numerous aspects of social economic and cultural activity worldwide and keeping pace with the associated effects implications opportunities and pitfalls has been challenging to researchers in diverse realms ranging from education to competitive intelligence **Switching Theory** Paul E. A. Wood,1968 *Timed Boolean Functions* William K.C. Lam,Robert K. Brayton,2012-12-06 Timing research in high performance VLSI systems has advanced at a steady pace over the last few years while tools especially theoretical mechanisms lag behind Much present timing research relies heavily on timing diagrams which although intuitive are inadequate for analysis of large designs with many parameters Further timing diagrams offer only approximations not exact solutions to many timing problems and provide little insight in the cases where temporal properties of a design interact intricately with the design s logical functionalities This book presents a methodology for timing research which facilitates analy sis and design of circuits and systems in a unified temporal and logical domain In the first part we introduce an algebraic representation formalism Timed Boolean Functions TBF s which integrates both logical and timing informa tion of digital circuits and systems into a single formalism We also give a canonical form TBF BDD s for them which can be used for efficient ma nipulation In the second part we apply Timed Boolean Functions to three problems in timing research for which exact solutions are obtained for the first time 1 computing the exact delays of combinational circuits and the minimum cycle times of finite state machines 2 analysis and synthesis of wavepipelining circuits a high speed architecture for which precise timing relations between signals are essential for correct operations 3 verification of circuit and system performance and coverage of delay faults by testing **Starting Out with Programming Logic and Design** Tony Gaddis,2009-10-02 Starting Out with Programming Logic and Design is a language independent introductory programming book that orients students to programming concepts and logic without assuming any previous programming experience In the successful accessible style of Tony Gaddis best selling texts useful examples and detail oriented explanations allow students to become comfortable with fundamental concepts and logical thought processes used in programming without the complication of language syntax Students gain confidence in their program design skills to transition into more comprehensive programming courses Introduction to Computers and Programming Input Processing and Output Modules Decision Structures and Boolean Logic Repetition Structures Functions Input Validation Arrays Sorting and Searching Arrays Files Menu Driven Programs Object Oriented Programming GUI Applications and Event Driven Programming For all readers interested in programming logic and introductory programming Subject Catalog, 1977 Library of Congress,1977 **National Union Catalog** ,1981 Includes entries for maps and atlases **Logic and Computer Design Fundamentals** M. Morris Mano,Charles R.

Kime,2004 Based on the book Computer Engineering Hardware Design 1988 which presented the same combined treatment of logic design digital system design and computer design basics Because of its broad coverage of both logic and computer design this text can be used to provide an overview of logic and computer hardware for computer science computer engineering electrical engineering or engineering students in general Annotation copyright by Book News Inc Portland OR

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