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# Introduction to Logic Design

Third Edition

Alan B. Marcovitz

MCGRAW-HILL INTERNATIONAL EDITION

# Alan Marcovitz Introduction To Logic Design Edition

**Alan B. Marcovitz**

## **Alan Marcovitz Introduction To Logic Design Edition:**

**Introduction to Logic Design** Alan B. Marcovitz, 2009-01-09 *Introduction to Logic Design* by Alan Marcovitz is intended for the first course in logic design taken by computer science computer engineering and electrical engineering students. As with the previous editions this edition has a clear presentation of fundamentals and an exceptional collection of examples solved problems and exercises. The text integrates laboratory experiences both hardware and computer simulation while not making them mandatory for following the main flow of the chapters. Design is emphasized throughout and switching algebra is developed as a tool for analyzing and implementing digital systems. The presentation includes excellent coverage of minimization of combinational circuits including multiple output ones using the Karnaugh map and iterated consensus. There are a number of examples of the design of larger systems both combinational and sequential using medium scale integrated circuits and programmable logic devices. The third edition features two chapters on sequential systems. The first chapter covers analysis of sequential systems and the second covers design. Complete coverage of the analysis and design of synchronous sequential systems adds to the comprehensive nature of the text. The derivation of state tables from word problems further emphasizes the practical implementation of the material being presented.

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with Marcovitz's previous books the clear presentation of concepts and well paced writing style make Introduction to Logic and Computer Design the ideal companion to any first course in digital logic. Users rave about the book's extensive set of examples well integrated into the body of the text and included at the end of each chapter in sections of solved problems that give students multiple opportunities to understand the topics being presented [Formal Synthesis of Safety Controller Code for Distributed Controllers](#) Dirk Missal, 2012 Modern control systems in manufacturing are characterized by rising complexity in size and functionality. They are highly decentralized and constitute a network of physically and functionally distributed controllers collaborating to perform the control tasks. This goes along with a further growing demand on safety and reliability. A distributed control architecture supporting functional decomposition of large systems as well as accommodating flexibility of modular systems is defined. This work describes the formal synthesis of distributed control functions for the sub area of safety requirements. The formal synthesis is applied to avoid the potentially faulty influence of human work through the whole process from the formal specification to the executable control function. Starting points are a formal model of the uncontrolled plant behavior and a formal specification of forbidden behavior. The formulation of the specification and the modeling is exemplified on a manufacturing system in lab scale. The introduced synthesis methods produce controller models describing the correct control actions to achieve the given specification. The methods use symbolic backward search from a forbidden state to determine the last admissible state before entering an uncontrollable trajectory to a forbidden state. Hence the determination of the reachable state space is avoided to reduce the computational complexity. The use of partial markings leads to a further reduction. The complexity is an important obstacle for the use of formal methods on real scale applications. The monolithic synthesis approach is proven to result in maximally permissive results. The modular approach is not maximally permissive but the more efficient way to distributed control functions. The implementation of the generated controller model as executable Function Blocks according to IEC61499 is addressed in the last part of this work. The distributed control predicates are embedded as structured text instruction into different interacting Function Block types according to the distributed control structure. This last step finalizes the sequence from a formal model and the specification to fully automatically generated executable control code.

**Digital Electronic Circuits** Shuqin Lou, Chunling Yang, 2019-05-20 This book presents three aspects of digital circuits: digital principles, digital electronics, and digital design. The modern design methods of using electronic design automation (EDA) are also introduced, including the hardware description language (HDL) designs with programmable logic devices and large scale integrated circuit (LSI). The applications of digital devices and integrated circuits are discussed in detail as well.

**Digital Logic Design and Computer Organization with Computer Architecture for Security** Nikrouz Faroughi, 2014-09-08 A comprehensive guide to the design organization of modern computing systems. Digital Logic Design and Computer Organization with Computer Architecture for Security provides practicing engineers and students with a clear understanding of computer hardware technologies. The fundamentals

of digital logic design as well as the use of the Verilog hardware description language are discussed. The book covers computer organization and architecture, modern design concepts and computer security through hardware. Techniques for designing both small and large combinational and sequential circuits are thoroughly explained. This detailed reference addresses memory technologies, CPU design and techniques to increase performance, microcomputer architecture including plug and play device interface and memory hierarchy. A chapter on security engineering methodology as it applies to computer architecture concludes the book. Sample problems, design examples and detailed diagrams are provided throughout this practical resource. COVERAGE INCLUDES: Combinational circuits, small designs; Combinational circuits, large designs; Sequential circuits, core modules; Sequential circuits, small designs; Sequential circuits, large designs; Memory, Instruction set architecture, Computer architecture, interconnection, Memory system, Computer architecture, security.

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**Logic Design.** Alan B. Marcovitz, 2001-08    [American Book Publishing Record](#), 2006    *Logical Design for Digital Instrumentation Systems* University of Michigan. Engineering Summer Conferences, 1976    *International Journal of Electrical Engineering Education*, 1974    **CACHE Monograph Series in Real-time Computing**, 1979    [American Book Publishing Record Cumulative, 1950-1977](#) R.R. Bowker Company. Department of Bibliography, 1978    **The Indian National Bibliography** B. S. Kesavan, 2006    **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004    **Indian National Bibliography**, 2008-07    *Library of Congress Catalogs* Library of Congress, 1976    [Real-time Computing](#) Duncan A. Mellichamp, 1983    **Technical Books in Print**, 1974

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