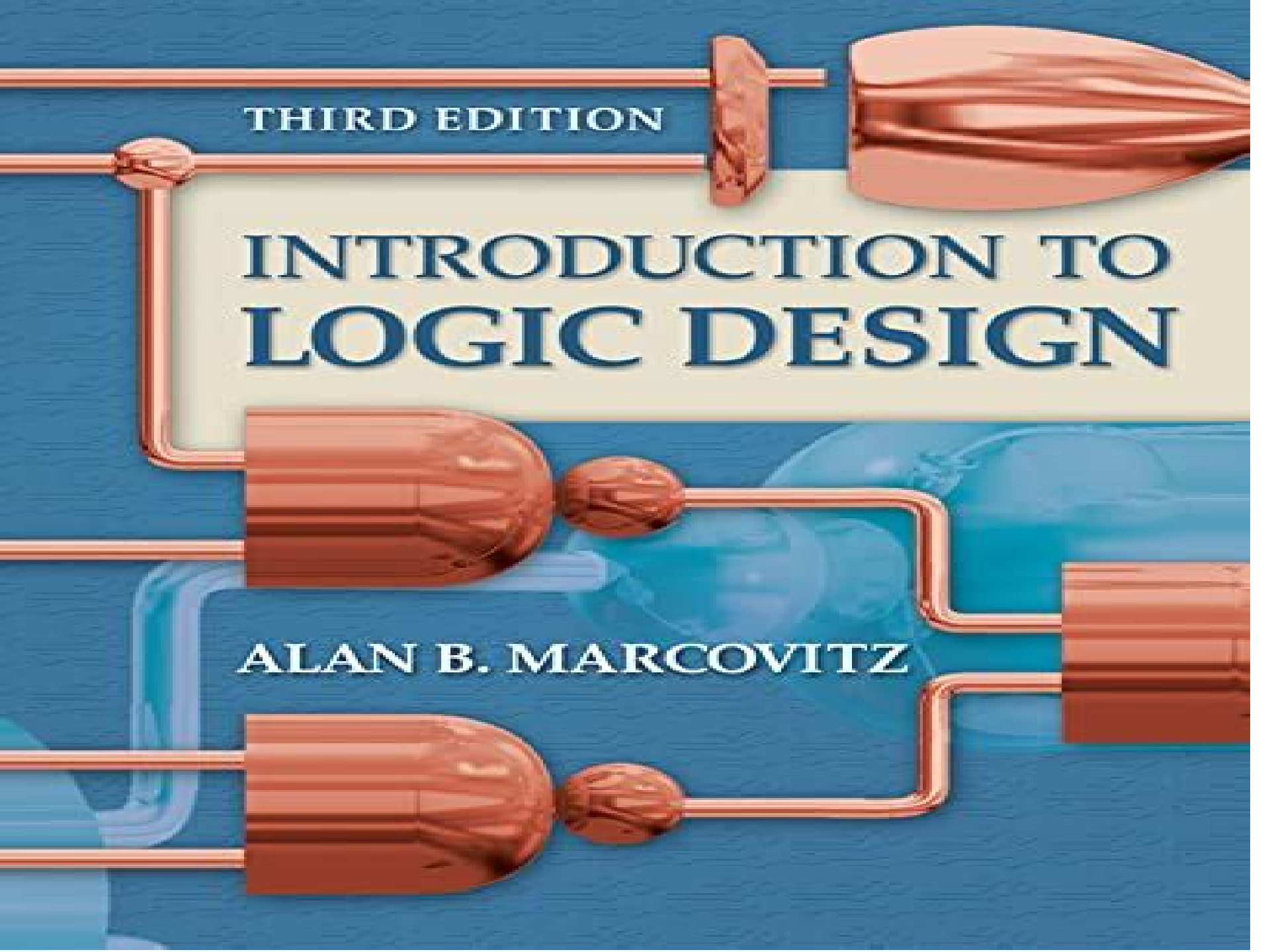




THIRD EDITION

INTRODUCTION TO LOGIC DESIGN

ALAN B. MARCOVITZ

Alan Marcovitz Introduction To Logic Design 3 Edition

B. S. Kesavan



Alan Marcovitz Introduction To Logic Design 3 Edition:

Introduction to Logic Design Svetlana N. Yanushkevich, Vlad P. Shmerko, 2008-01-25 With an abundance of insightful examples problems and computer experiments Introduction to Logic Design provides a balanced easy to read treatment of the fundamental theory of logic functions and applications to the design of digital devices and systems Requiring no prior knowledge of electrical circuits or electronics it supplies the 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 That 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 **American Book Publishing Record** ,2006 *Foundations of Digital Logic and Computer Systems* Dr. Ishaan Tamhankar, Dr. Sindhu Pandya, Dr. Yatin Patel, 2025-06-09 Foundations of Digital Logic and Computer Systems is a comprehensive introduction to the principles underlying modern computer technology beginning with the basics of binary numbers and Boolean algebra and progressing through combinational and sequential logic design The book explores how fundamental components like logic gates flip flops and multiplexers are used to construct memory units arithmetic logic units and control systems It bridges the gap between hardware and software by illustrating how digital logic forms the basis of computer architecture and how assembly language interacts with hardware Through

clear explanations and practical examples the text builds a strong foundation for understanding how computers operate at their most fundamental level American Book Publishing Record Cumulative, 1950-1977 R.R. Bowker Company.

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