

Reading Assignment: Chapter 3 in *Logic and Computer Design Fundamentals 4th Edition* by Mano

Chapter 3 – Combinational Logic Design

Chapters 1-2 covered the basic tools for working with combinational logic circuits, including:

- number systems
- Boolean expressions
- Minimization techniques
- Logic gates

Chapter 3 introduces topics related to the *design* of combinational logic circuits, including:

- design procedure
- hierarchical design
- common combinational logic circuits/functions, including:
 - encoders, decoders, priority encoders
 - multiplexers, de-multiplexers
 - magnitude comparators
 - BCD to 7-segment decoders

Logic And Computer Design Fundamentals Chapter 3

Herbert S. Sobel



Logic And Computer Design Fundamentals Chapter 3:

Logic and Computer Design Fundamentals M. Morris Mano, Charles R. Kime, 2008 Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages synthesis and verification this book focuses on the ever evolving applications of basic computer design concepts with strong connections to real world technology Treatment of logic design digital system design and computer design Ideal for self study by engineers and computer scientists

Reconfigurable Computing Systems Engineering Lev Kirischian, 2017-12-19 Reconfigurable Computing Systems Engineering Virtualization of Computing Architecture describes the organization of reconfigurable computing system RCS architecture and discusses the pros and cons of different RCS architecture implementations Providing a solid understanding of RCS technology and where it is most effective this book Details the architecture organization of RCS platforms for application specific workloads Covers the process of the architectural synthesis of hardware components for system on chip SoC for the RCS Explores the virtualization of RCS architecture from the system and on chip levels Presents methodologies for RCS architecture run time integration according to mode of operation and rapid adaptation to changes of multi parametric constraints Includes illustrative examples case studies homework problems and references to important literature A solutions manual is available with qualifying course adoption Reconfigurable Computing Systems Engineering Virtualization of Computing Architecture offers a complete road map to the synthesis of RCS architecture exposing hardware design engineers system architects and students specializing in designing FPGA based embedded systems to novel concepts in RCS architecture organization and virtualization *Principles of Computer Design* Leonard R. Marino, 1986

Introduction to Digital Computer Design Herbert S. Sobel, 1970 *The Architecture of Microcomputers: Fundamentals with revisions* S. E. Greenfield, 1983 Modern Data Processors and Systems Donald Eadie, 1971 **Digital Circuits with Microprocessor Applications** Paul M. Chirlian, 1982 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine Complete Digital Design : A Comprehensive Guide to Digital Electronics and Computer System Architecture Mark Balch, 2003-06-20 This is a readable hands on self tutorial through basic digital electronic design methods The format and content allows readers faced with a design problem to understand its unique requirements and then research and evaluate the components and technologies required to solve it Begins with basic design elements and expands into full systems Covers digital analog and full system designs Features real world implementation of complete digital systems *Fundamentals of Digital Computers* Seymour M. Weinstein, Armand Keim, 1965 **International Computer Bibliography** Stichting Studiecentrum voor Administratieve Automatisering, National Computing Centre Limited, 1968 Computer Logic David Hutchison, Peter Silvester, 1987 **The Bulletin of Mathematics Books**, 1992 **Data Processing Digest**, 1988 **Fundamentals of Digital Machine Computing** Guenter Hintze, 1966 An Introduction to Computer Logic H. Troy Nagle, Bill D. Carroll, J.

David Irwin, 1975 Prentice Hall electrical engineering series **Computer Organization and Microprogramming** Yaohan Chu, 1972 Computer design language Some organizations Microprogramming Serial arithmetic units A fixed point arithmetic unit A floating point arithmetic unit **Fundamentals of Digital Systems** Brian Roy Bannister, Donald Gill Whitehead, 1973
A Flux-shuttle Shift Register and Computer Architecture for Superconductive Digital Systems Jay Elmer Fleischman, 1993
Digital Systems Design Using VHDL Charles H. Roth, 1998 Written for an advanced level course in digital systems design
DIGITAL SYSTEMS DESIGN USING VHDL integrates the use of the industry standard hardware description language VHDL into the digital design process Following a review of basic concepts of logic design in Chapter 1 the author introduces the basics of VHDL in Chapter 2 and then incorporates more coverage of VHDL topics as needed with advanced topics covered in Chapter 8 Rather than simply teach VHDL as a programming language this book emphasizes the practical use of VHDL in the digital design process For example in Chapter 9 the author develops VHDL models for a RAM memory and a microprocessor bus interface he then uses a VHDL simulation to verify that timing specifications for the interface between the memory and microprocessor bus are satisfied The book also covers the use of CAD tools to synthesize digital logic from a VHDL description in Chapter 8 and stresses the use of programmable logic devices including programmable gate arrays Chapter 10 introduces methods for testing digital systems including boundary scan and a built in self test **The Art of Digital Design** Franklin P. Prosser, David E. Winkel, 1987 Hardware Logic Design

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