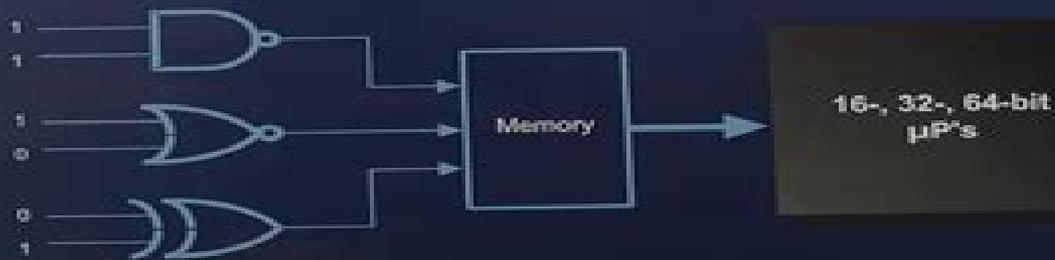


Fundamentals of  
**Digital Logic**  
and  
**Microcomputer Design**

**M. RAFIQUZZAMAN**



Hardcover



# Fundamentals Of Digital Logic And Microcomputer Design Revised Edition

**Abhishek Bhatt**



## **Fundamentals Of Digital Logic And Microcomputer Design Revised Edition:**

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*Fundamentals of Digital Logic and Microcomputer Design* Mohamed Rafiquzzaman, 1999

**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.

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texts either focus on computer design or digital logic and digital systems this book includes both areas making it a unique addition to existing literature The author has an extensive background in computers and has published numerous books on the subject He is undoubtedly one of the leading authorities in this field This book covers simple topics such as number system and Boolean algebra to advanced topics such as assembly language programming and microprocessor based system design The accompanying CD contains a step by step procedure for installing and using Altera Quartus II software for synthesizing Verilog and VHDL descriptions Screen shots of the waveforms and tabular forms illustrating the simulation results are also provided in the CD The CD also contains a step by step procedure for installing and using MASM 6 11 8086 and 68asmsim 68000 Screen shots verifying correct operations of several assembly language programs via simulation using test data are also provided in the CD About The Book This book covers all basic concepts of computer engineering and science from digital logic circuits to the design of a complete microcomputer system in a methodical and basic manner Its intention is to present a clear understanding of the principles and basic tools required to design typical digital systems such as microcomputers The book covers the latest version of Altera software called Quartus II It provides a simplified introduction to VHDL along with a step by step procedure with tutorials on a CD It is ideal for an introductory course in VHDL containing digital logic and microprocessors along with both VHDL and Verilog The material in the text is divided into three sections Fundamentals of digital logic circuits and design Microprocessor microcomputer design Overview of 16 32 and 64 bit microprocessors manufactured by Intel and Motorola Digital Electronics and System Abhishek Bhatt,2025-06-01

**Discrete Mathematics** Rowan Garnier,John Taylor,2009-11-09 Taking an approach to the subject that is suitable for a broad readership Discrete Mathematics Proofs Structures and Applications Third Edition provides a rigorous yet accessible exposition of discrete mathematics including the core mathematical foundation of computer science The approach is comprehensive yet maintains an easy to follow prog

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**Electronic Design** ,1981 **Fundamentals of Computer Engineering** Herman Lam,John R. O'Malley,1988-04-26 This complete introduction to computer engineering includes the use of the microprocessor as a building block for digital logic design The authors offer a top down approach to designing digital systems with consideration of both hardware and software They emphasize structured design throughout and the design methods techniques and notations are consistent with

this theme The first part of the book lays the foundation for structured design techniques the second part provides the fundamentals of microprocessor and up based design Topics covered include mixed logic notation the algorithm state machine and structured programming techniques with well documented programs Contains an abundance of examples and end of chapter problems

**Modern Digital Systems Design** John Y. Cheung, Jon G. Bredeson, 1990 *Digital Concepts Using Standard Integrated Circuits* Richard S. Sandige, 1978 *Computer-aided Design of Microelectronic Circuits and Systems: Digital-circuit aspects and state of the art* A. F. Schwarz, 1987

**Computer, Network, Software, and Hardware Engineering with Applications** Norman F. Schneidewind, 2012-02-08 There are many books on computers networks and software engineering but none that integrate the three with applications Integration is important because increasingly software dominates the performance reliability maintainability and availability of complex computer and systems Books on software engineering typically portray software as if it exists in a vacuum with no relationship to the wider system This is wrong because a system is more than software It is comprised of people organizations processes hardware and software All of these components must be considered in an integrative fashion when designing systems On the other hand books on computers and networks do not demonstrate a deep understanding of the intricacies of developing software In this book you will learn for example how to quantitatively analyze the performance reliability maintainability and availability of computers networks and software in relation to the total system Furthermore you will learn how to evaluate and mitigate the risk of deploying integrated systems You will learn how to apply many models dealing with the optimization of systems Numerous quantitative examples are provided to help you understand and interpret model results This book can be used as a first year graduate course in computer network and software engineering as an on the job reference for computer network and software engineers and as a reference for these disciplines

IEEE Circuits & Devices, 2006 **Electronic Engineering**, 1980 *Fundamentals of Digital Logic with VHDL Design* Stephen D. Brown, Zvonko G. Vranesic, 2023 Fundamentals of Digital Logic with VHDL Design 4th Edition is intended for an introductory course in digital logic design which is a basic course in most electrical and computer engineering programs A successful designer of digital logic circuits needs a good understanding of basic concepts and a firm grasp of computer aided design CAD tools

Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 Microprocessor-based Design Michael Slater, 1989

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