

Verilog Digital Computer Design Algorithms Into Hardware

Introduction to Digital Computer DesignDesign of Digital ComputersDigital Logic and Computer DesignDigital Computer Design FundamentalDigital Computer Design Principles with Introduction to MicroprocessorsAN INTRODUCTION TO DIGITAL COMPUTER DESIGN, FIFTH EDITIONDigital Computer DesignDigital Computer Technology and Design: Mathematical topics, principles of operation, and programmingDesign of Digital ComputersDigital Computer ArithmeticFundamentals of Digital and Computer Design with VHDLAN INTRODUCTION TO DIGITAL COMPUTER DESIGNDigital computer designIntroduction to Digital Computer DesignNational Bureau of Standards Miscellaneous PublicationDigital Logic and Computer DesignMiscellaneous Publication - National Bureau of StandardsLogical Design of Digital ComputersAdvances in Digital Computer Design, Hardware and Software (819)NBS Special Publication Herbert S. Sobel Hans W. Gschwind M. Morris Mano Yaohan Chu Moreshwar Ramji Bhujade V. RAJARAMAN Edward Louis Braun Willis H. Ware Hans W. Gschwind Joseph Cavanagh Michael L. Sandige Edward L. Braun Herberts S. Sobel Thomas Richard McCalla United States. National Bureau of Standards Montgomery Phister Algirdas Avižienis

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i have been using the first edition of this book as a text for a number of years this was in a stanford university first year graduate course that is taken by students from electrical engineering or computer science who are interested in computer organization because computer technology has been changing so rapidly it became necessary to supplement the text with additional readings my colleagues and i examined many newly published books for possible use as texts we found no book with the same excellent choice of topics and thorough coverage as dr gschwind s first edition springer verlag s request that i prepare a second edition of this book came at a time when i had many other projects underway before i decided whether to take on the project of preparing a revision i asked many of my students for their opinions of dr gschwind s first edition even i was surprised by the enthusiasm that this rather skeptical and critical group of students displayed for the book it was this enthusiasm that convinced me of the value and importance of preparing the revision

this highly acclaimed well established book now in its fifth edition is intended for an introductory course in digital computer design for b sc students of computer science b tech students of computer science and engineering and bca mca students of computer applications a knowledge of programming in c or java would be useful to give the

student a proper perspective to appreciate the development of the subject the first part of the book presents the basic tools and develops procedures suitable for the design of digital circuits and small digital systems it equips students with a firm understanding of logic principles before they study the intricacies of logic organization and architecture of computers in the second part besides discussing data representation arithmetic operations boolean algebra and its application in designing combinatorial and sequential switching circuits the book introduces the algorithmic state machines which are used to develop a hardware description language for the design of digital systems the organization of a small hypothetical computer is described to illustrate how instruction sets are evolved real computers namely pentium and mips machines are described and compared with the hypothetical computer after discussing the features of a cpu i o devices and i o organization cache and virtual memory the book concludes with a new chapter on the use of parallelism to enhance the speed of computers besides the fifth edition has new material in cmos gates msi alu and pentium5 architecture the chapter on cache and virtual memory has been rewritten

this text is intended for an introductory digital design course for students at the freshman level it also is intended for an introductory computer design course with assembly language programming for students at the sophomore level this text uses a spiral teaching approach by introducing a design problem and then in the same chapter or a later chapter either 1 reemphasizing the same concepts when a different design is presented or 2 working the same problem using a different technique this is done to increase the likelihood of retention

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