

Digital computer types



Design Of Digital Computers

Clifford Lane



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Design of Digital Computers Hans W. Gschwind, E.J. McCluskey, 2012-12-06 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. **Design of Digital Computers** Hans W. Gschwind, 2013-03-13

Design of digital computers Hans W. Gschwind, 1975 **Logical Design of Digital Computers** Montgomery Phister, 1990 **Theory and Design of Digital Computer Systems** Douglas Lewin, 1980-01-01 *Circuit Design of Digital Computers* Joseph K. Hawkins, 1968 Digital Computer Design Principles with Introduction to Microprocessors Moreshwar Ramji Bhujade, 1989 *Digital Computer Design Fundamental* Yaohan Chu, 1962 **Theory and Design of Digital Computer Systems** T.R. Lewin, David L.G. Noakes, 2012-12-06 Knowledge A little light expels much darkness _ Bahya ibn Paquda Duties of the Heart During the early 1970s digital computer techniques concentrated on the computational and interfacing aspects of digital systems and the decade began as the age of both the mainframe computer and the minicomputer. Engineers and system designers needed to know the fundamentals of computer operation and how the practical limitations of the architectures of the day the memory size cost and performance could be overcome. It was for this reason that this book was first written. By 1980 the microprocessor revolution had arrived. As a result the microprocessor became a component of a system rather than a system itself and the need to understand the behaviour of the device became of even greater importance to the system designer. New developments in mainframe computers were few with networks of minicomputers taking over their role in many instances. The 1980 revision of this book took into account the major advances in semiconductor technology that had occurred since it was first published in 1972 and included material relevant to the microprocessor. The Logic Design of Transistor Digital Computers Gerald A. Maley, John Earle, 1963 **Theory and Design of Digital Computer Systems** Douglas Lewin, David Noaks, 1992-11-30 A second and third year text for courses in computer engineering and digital systems this work is concerned with the way in which the computer in its simplest form is a component in a system which can be used to construct complex digital architectures. *Fundamentals of the Theory and Design of Digital Computers* B. V. Anisimov, V. N. Tchvetverikov, 1968 **Designing Digital Computer Systems with**

Verilog David J. Lilja, Sachin S. Sapatnekar, 2004-12-02 This book serves both as an introduction to computer architecture and as a guide to using a hardware description language HDL to design model and simulate real digital systems The book starts with an introduction to Verilog the HDL chosen for the book since it is widely used in industry and straightforward to learn Next the instruction set architecture ISA for the simple VeSPA Very Small Processor Architecture processor is defined this is a real working device that has been built and tested at the University of Minnesota by the authors The VeSPA ISA is used throughout the remainder of the book to demonstrate how behavioural and structural models can be developed and intermingled in Verilog Although Verilog is used throughout the lessons learned will be equally applicable to other HDLs Written for senior and graduate students this book is also an ideal introduction to Verilog for practising engineers Theory and Design of Digital Computers Douglas Lewin, 1973 AN INTRODUCTION TO DIGITAL COMPUTER DESIGN V. RAJARAMAN, T. RADHAKRISHNAN, 2008-03-01 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 Computer Logic Ivan Flores, 1964 *Design of Digital Computers; An Introduction*, by Hans W. Gschwind Hans W. Gschwind, 1967 *Logic Design of Digital Computers* Montgomery Phister, 1958 **Digital Design and Computer Architecture** David Money Harris, Sarah L. Harris, 2013 Provides practical examples of how to interface with peripherals using RS232 SPI motor control interrupts wireless and analog to digital conversion This book covers the fundamentals of digital logic design and reinforces logic concepts through the design of a MIPS microprocessor *Computer Aided Design of Digital Systems*, 1960

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