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hardware logic design

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this first edition book covers the key design problems of modeling architectural tradeoffs functional verification timing analysis test generation fault simulation design for testability logic synthesis and post synthesis verification the author's focus is on developing verifying and synthesizing designs of digital circuits rather than on the verilog language some of the topics covered in this book include digital design methodology combinational logic sequential logic design logic design with verilog and programmable logic and storage devices for professional engineers interested in learning verilog by example in the context of its use in the design flow of modern integrated circuits

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

this book provides a thoroughly modern and up to date introduction to microcomputer interfacing as well as a general introduction to the fundamental of microcomputer architecture

computer architecture offers an overview of a computer's key structural building blocks introducing these building blocks in terms of computer family architecture whose members maintain compatibility with prior generation hardware as new implementations are introduced

provides an introduction to microprocessor systems their operation and design the text covers topics needed by engineers and computer scientists who are interested in applying microprocessors in practical situations such as computer hardware software and the design and testing of systems

written for computer and electronics professionals in both industry and academia the book covers computer hardware systems and applications with topics ranging from computer arithmetic and digital logic to computer graphics parallel computing systems

and vlsi system design

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