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computer architecture software engineering

digital design and computer organization introduces digital design as it applies to the creation of computer systems it summarizes the tools of logic design and their mathematical basis along with in depth coverage of combinational and sequential circuits the book includes an accompanying cd that includes the majority of circuits highlighted in the text delivering you hands on experience in the simulation and observation of circuit functionality these circuits were designed and tested with a user friendly electronics workbench package multisim textbook edition that enables your progression from truth tables onward to more complex designs this volume differs from traditional digital design texts by providing a complete design of an ac based cpu allowing you to apply digital design directly to computer architecture the book makes minimal reference to electrical properties and is vendor independent allowing emphasis on the general design principles

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this is the first book in the two volume set offering comprehensive coverage of the field of computer organization and architecture this book provides complete coverage of the subjects pertaining to introductory courses in computer organization and architecture including instruction set architecture and design assembly language programming computer arithmetic processing unit design memory system design input output design and organization pipelining design techniques reduced instruction set computers riscs the authors who share over 15 years of undergraduate and graduate level instruction in computer architecture provide real world applications examples of machines case studies and practical experiences in each chapter

the seventh edition of the highly acclaimed fundamentals of computers lucidly presents how computer systems function both hardware and software aspects of computers are covered the book begins with how numeric and character data are represented in a computer how various input and output units function how different types of memory units are organized and how data is processed by the processor the interconnection and communication between the i o units the memory and the processor is explained clearly and concisely software concepts such as programming languages operating systems and communication protocols are discussed with growing use of wireless to access computer networks 4g and 5g cellular wireless communication systems wi fi wireless high fidelity and wimax have become important thus it has now become part of fundamental knowledge of computers and has been included in this edition besides this use of computers in multimedia processing has become commonplace and is explained with the increase in speed of networks and consequently the internet new computing environments such as peer to peer grid and cloud computing have emerged hence a chapter on this topic has been included artificial intelligence is revolutionising computing it has now become fundamental knowledge every student should know a new chapter on the basics of ai has been included in this edition this book is an ideal text for undergraduate and postgraduate students of engineering and computer science who study fundamentals of computers as a core course students of computer applications bca and mca and undergraduate students of management who should all know the basics of computer hardware and software it is ideally suited for working professionals who want to update their knowledge of fundamentals of computers key features fully updated retaining the style and all contents of the previous editions in depth discussion of both wired and wireless computer networks extensive discussion of analog and digital communications advanced topics such as multiprogramming virtual memory dma risc dsp rfid smart cards wii 4g 5g novel i o devices and multimedia compression mp3 mpeg are described from first principles a new chapter on the basics of ai has been added for the first time in an entry level book each chapter begins with learning goals and ends

with a summary to aid self study includes an updated glossary of over 350 technical terms used in the book target audience first course in computers in diploma courses as a core course in computers for engineering students b tech b e bca mca b sc computer science management students for whom the basics of computer science form a fundamental requirement for any reader professional with an inclination for a study of computers

a comprehensive guide to the design organization of modern computing systems digital logic design and computer organization with computer architecture for security provides practicing engineers and students with a clear understanding of computer hardware technologies the fundamentals of digital logic design as well as the use of the verilog hardware description language are discussed the book covers computer organization and architecture modern design concepts and computer security through hardware techniques for designing both small and large combinational and sequential circuits are thoroughly explained this detailed reference addresses memory technologies cpu design and techniques to increase performance microcomputer architecture including plug and play device interface and memory hierarchy a chapter on security engineering methodology as it applies to computer architecture concludes the book sample problems design examples and detailed diagrams are provided throughout this practical resource coverage includes combinational circuits small designs combinational circuits large designs sequential circuits core modules sequential circuits small designs sequential circuits large designs memory instruction set architecture computer architecture interconnection memory system computer architecture security

describing both the practical details of interest to students and the high level concepts and abstractions highlighted by faculty the tao of computing second edition presents a comprehensive introduction to computers and computer technology this edition updates its popular predecessor with new research exercises and expanded discussion questions

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computer systems architecture provides it professionals and students with the necessary understanding of computer hardware it addresses the ongoing issues related to computer hardware and discusses the solutions supplied by the industry the book describes trends in computing solutions that led to the current available infrastructures tracing the initial need for computers to recent concepts such as the internet of things it covers computers data representation explains how computer architecture and its underlying meaning changed over the years and examines the implementations and performance enhancements of the central processing unit cpu it then discusses the organization hierarchy and performance considerations of computer memory as applied by the operating system and illustrates how cache memory significantly improves performance the author proceeds to explore the bus system algorithms for ensuring data integrity input and output i o components methods for performing i o various aspects relevant to software engineering and nonvolatile storage devices such as hard drives and technologies for enhancing performance and reliability he also describes virtualization and cloud computing and the emergence of software based systems architectures accessible to software engineers and developers as well as students in it disciplines this book enhances readers understanding of the hardware infrastructure used in software engineering projects it enables readers to better optimize system usage by focusing on the principles used in hardware systems design and the methods for enhancing performance

computer systems organization general

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