



Speed and Power

Speed And Power Understanding Computers Series

Pasquale De Marco



Speed And Power Understanding Computers Series:

Digital Circuits and Gates: Understanding Computer Fundamentals Pasquale De Marco, 2025-04-14 In a world driven by digital technology understanding the inner workings of digital circuits and gates is no longer a luxury but a necessity This comprehensive guide unlocks the secrets of these fundamental building blocks of modern computing empowering you with the knowledge to analyze design and implement digital circuits with confidence Embark on a journey through the fascinating world of digital circuits where binary logic reigns supreme and truth tables dictate the behavior of logic gates Discover the intricacies of combinational logic where circuits operate without memory and sequential logic where memory elements enable complex operations Delve into the diverse range of logic families comparing their characteristics and applications and explore the power of programmable logic devices including FPGAs and CPLDs Unravel the mysteries of data transmission contrasting serial and parallel communication techniques and delve into error detection and correction methods ensuring reliable data transfer in noisy environments Bridge the gap between the analog and digital worlds with analog to digital and digital to analog conversion techniques uncovering the secrets of interfacing between different types of signals With a blend of theoretical explanations and practical examples this book is your ultimate companion in mastering digital circuits and gates Whether you re a student hobbyist or professional engineer this comprehensive guide provides the foundation you need to navigate the ever expanding world of digital technology Step into the realm of digital circuits and gates and unlock the power of the digital world that surrounds us Discover the elegance and simplicity of these fundamental building blocks and gain the knowledge and skills to create and analyze digital circuits with confidence If you like this book write a review on google books

Exploring Computer Hardware - 2024 Edition Kevin Wilson, 2024-06-10 Unlock the mysteries of modern computing with Exploring Computer Hardware This full color illustrated guide delves into the intricate world of computer components peripherals networks and the internet offering a clear understanding for both beginners students and tech enthusiasts Key Features Full Color Illustrations and Photographs bring each component and concept to life making it easier to understand topics discussed Step by Step Diagrams to help you grasp the inner workings of computer hardware Interactive Learning with video tutorials that complement the text providing real world demonstrations of key concepts and procedures What s Inside The Basics Introduction to computer fundamentals and essential peripherals Types of Computers Detailed exploration of desktops laptops netbooks Chromebooks tablets hybrids Macs and PCs Hardware Components Comprehensive coverage of internal hardware like CPUs RAM storage devices external peripherals chipsets BIOS UEFI power supplies cooling systems and many others Networking and Connectivity Networking hardware topologies and technologies as well as the Internet Other Topics Fundamentals Cloud computing internet security binary fetch execute cycle logic data compression and sorting algorithms Why Choose This Book Clear and Accessible Written in an easy to understand language with full color photographs and illustrations making it perfect for beginners Practical Insights Real

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coverage of computer organization principles across three major architectures RISC V ARM Cortex and Intel ensuring a broad understanding of modern computing Includes numerous practical explanations using real world examples from each architecture offering hands on insights into memory mapped I O interrupts DMA and various memory technologies Presents detailed exploration of diverse components such as interrupts and their usage interrupt controllers DMA transfers and DMA controllers Offers exploration of DDRx SDRAM memory SDRAM controllers DIMM modules caches and virtual memory Concise and yet thorough this useful textbook guide equips readers with the knowledge and skills needed to navigate the complexities of computer organization making it essential reading for students and professionals

Computers: Unveiling the Digital Revolution Pasquale De Marco, 2025-04-21 In a world increasingly shaped by digital technology Computers Unveiling the Digital Revolution serves as an essential guide to understanding the inner workings of computers and their profound impact on society This comprehensive book takes readers on a journey through the vast landscape of computing delving into the fundamental concepts emerging trends and ethical considerations that define this ever evolving field With a focus on clarity and accessibility the book demystifies the complex world of computers making it approachable for readers of all backgrounds From the intricacies of hardware components to the elegance of software programming the book provides a solid foundation in computer science It explores the underlying principles of networking and communication empowering readers to navigate the interconnected digital world with confidence Venturing beyond the technical realm the book delves into the societal and ethical implications of technology It examines the impact of computers on privacy security and the widening digital divide It also explores the transformative role of technology in education healthcare and the future of work Written with a conversational tone and engaging style Computers Unveiling the Digital Revolution captivates readers with its insightful explanations thought provoking questions and real world examples Whether you are a student seeking a deeper understanding of computer science a professional looking to expand your knowledge or simply a curious individual eager to navigate the digital age this book is your trusted companion Immerse yourself in the world of computers and discover the transformative power of technology Computers Unveiling the Digital Revolution equips you with the knowledge and understanding to thrive in a world increasingly defined by digital innovation If you like this book write a review on google books

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Knowing Machines Donald A. MacKenzie, 1998 The essays are tied together by their explorations of connections primarily among technology society and knowledge and by their general focus on modern high technology They also share an emphasis on the complexity of technological formation and fixation and on the role of belief especially self validating belief in technological change

Computer Program Abstracts ,1979 Speed Reading - Harness Your

Computer's Power to Triple Your Reading Speed! Readpal,2005-11-17 This book brings speed reading into the 21st century It introduces AutoSkim technology that deletes less important words from a document so readers can skim faster The corresponding website ReadPal com offers additional support material and exercises Education Teaching Parallel Computing Architectures and APIs Vivek Kale,2019-12-06 Parallel Computing Architectures and APIs IoT Big Data Stream Processing commences from the point high performance uniprocessors were becoming increasingly complex expensive and power hungry A basic trade off exists between the use of one or a small number of such complex processors at one extreme and a moderate to very large number of simpler processors at the other When combined with a high bandwidth interprocessor communication facility leads to significant simplification of the design process However two major roadblocks prevent the widespread adoption of such moderately to massively parallel architectures the interprocessor communication bottleneck and the difficulty and high cost of algorithm software development One of the most important reasons for studying parallel computing architectures is to learn how to extract the best performance from parallel systems Specifically you must understand its architectures so that you will be able to exploit those architectures during programming via the standardized APIs This book would be useful for analysts designers and developers of high throughput computing systems essential for big data stream processing emanating from IoT driven cyber physical systems CPS This pragmatic book Devolves uniprocessors in terms of a ladder of abstractions to ascertain say performance characteristics at a particular level of abstraction Explains limitations of uniprocessor high performance because of Moore s Law Introduces basics of processors networks and distributed systems Explains characteristics of parallel systems parallel computing models and parallel algorithms Explains the three primary categorical representatives of parallel computing architectures namely shared memory message passing and stream processing Introduces the three primary categorical representatives of parallel programming APIs namely OpenMP MPI and CUDA Provides an overview of Internet of Things IoT wireless sensor networks WSN sensor data processing Big Data and stream processing Provides introduction to 5G communications Edge and Fog computing Parallel Computing Architectures and APIs IoT Big Data Stream Processing discusses stream processing that enables the gathering processing and analysis of high volume heterogeneous continuous Internet of Things IoT big data streams to extract insights and actionable results in real time Application domains requiring data stream management include military homeland security sensor networks financial applications network management web site performance tracking real time credit card fraud detection etc **Maximum PC** ,2007-09 Maximum PC is the magazine that every computer fanatic PC gamer or content creator must read Each and every issue is packed with punishing product reviews insightful and innovative how to stories and the illuminating technical articles that enthusiasts crave **Understanding Global Climate Change** Arthur P Cracknell,Costas A Varotsos,2021-07-28 Climate change a familiar term today is far more than just global warming due to atmospheric greenhouse gases including CO2 In order to understand the nature of climate change it is necessary to consider

the whole climatic system its complexity and the ways in which natural and anthropogenic activities act and influence that system and the environment Over the past 20 years since the first edition of Understanding Global Climate Change was published not only has the availability of climate related data and computer modelling changed but our perceptions of it and its impact have changed as well Using a combination of ground data satellite data and human impacts this second edition discusses the state of climate research today on a global scale and establishes a background for future discussions on climate change This book is an essential reference text relevant to any and all who study climate and climate change Features Provides a thought provoking and original approach to the science of climate Emphasises that there are many factors contributing to the causation of climate change Clarifies that while anthropogenic generation of carbon dioxide is important it is only one of several human activities contributing to climate change Considers climate change responses needed to be undertaken by politicians and society at national and global levels Totally revised and updated with state of the art satellite data and climate models currently in operation around the globe

High performance computing & networking for science. Office of Technology Assessment,1989

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Popular Science ,1987-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Scene of the Cybercrime: Computer Forensics Handbook Syngress,2002-08-12 Cybercrime and cyber terrorism represent a serious challenge to society as a whole Hans Christian Kr ger Deputy Secretary General of the Council of Europe Crime has been with us as long as laws have existed and modern technology has given us a new type of criminal activity cybercrime Computer and network related crime is a problem that spans the globe and unites those in two disparate fields law enforcement and information technology This book will help both IT pros and law enforcement specialists understand both their own roles and those of the other and show why that understanding and an organized cooperative effort is necessary to win the fight against this new type of crime 62% of US companies reported computer related security breaches resulting in damages of 124 million dollars This data is an indication of the massive need for Cybercrime training within the IT and law

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