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The X86 Microprocessors: Architecture and Programming (8086 to Pentium) Lyla B. Das,2010-09 *The X86 Microprocessor, 2e* Lyla B. Das,2014 This second edition of The x86 Microprocessors has been revised to present the hardware and software aspects of the subject in a logical and concise manner Designed for an undergraduate course on the 16 bit microprocessor and Pentium processor the book provides a detailed analysis of the x86 family architecture while laying equal emphasis on its programming and interfacing attributes The book also covers 8051 Microcontroller and its applications completely

The Intel Microprocessors Barry B. Brey,2009 **Computer Organisation and Architecture** Pranabananda Chakraborty,2020-09-30 Computer organization and architecture is becoming an increasingly important core subject in the areas of computer science and its applications and information technology constantly steers the relentless revolution going on in this discipline This textbook demystifies the state of the art using a simple and step by step development from traditional fundamentals to the most advanced concepts entwined with this subject maintaining a reasonable balance among various theoretical principles numerous design approaches and their actual practical implementations Being driven by the diversified knowledge gained directly from working in the constantly changing environment of the information technology IT industry the author sets the stage by describing the modern issues in different areas of this subject He then continues to effectively provide a comprehensive source of material with exciting new developments using a wealth of concrete examples related to recent regulatory changes in the modern design and architecture of different categories of computer systems associated with real life instances as case studies ranging from micro to mini supermini mainframes cluster architectures massively parallel processing MPP systems and even supercomputers with commodity processors Many of the topics that are briefly discussed in this book to conserve space for new materials are elaborately described from the design perspective to their ultimate practical implementations with representative schematic diagrams available on the book s website Key Features Microprocessor evolutions and their chronological improvements with illustrations taken from Intel Motorola and other leading families Multicore concept and subsequent multicore processors a new standard in processor design Cluster architecture a vibrant organizational and architectural development in building up massively distributed parallel systems InfiniBand a high speed link for use in cluster system architecture providing a single system image FireWire a high speed serial bus used for both isochronous real time data transfer and asynchronous applications especially needed in multimedia and mobile phones Evolution of embedded systems and their specific characteristics Real time systems and their major design issues in brief Improved main memory technologies with their recent releases of DDR2 DDR3 Rambus DRAM and Cache DRAM widely used in all types of modern systems including large clusters and high end servers DVD optical disks and flash drives pen drives RAID a common approach to configuring multiple disk arrangements used in large server based systems A good number of problems along

with their solutions on different topics after their delivery Exhaustive material with respective figures related to the entire text to illustrate many of the computer design organization and architecture issues with examples are available online at <http://crcpress.com> 9780367255732 This book serves as a textbook for graduate level courses for computer science engineering information technology electrical engineering electronics engineering computer science BCA MCA and other similar courses

Artificial Plasmonics for VLSI Interconnects Soumitra R. Joy, Pinaki Mazumder, 2025-12-04 Build the microchips of the future with this revolutionary new information transfer technology Advancements in high performance computing have continually demanded for progress in disruptive technological research and innovations Moore's Law has pushed the Very Large Scale Integration VLSI technology to pack MOS devices inside a chip at an exponential rate thereby surpassing now eight billion transistors per cm² This has concomitantly fueled the growth of multilayered on chip interconnects comprising metallic and low dielectric materials Artificial Plasmonics for VLSI Interconnects introduces a new method for improving chip performance by harnessing the power of information transfer among chips at terahertz frequency This revolutionary new electromagnetic wave engineering called a spoof surface plasmon polariton adapts the principles of VLSI and terahertz interconnect technology along with the artificial plasmonics to transfer huge quantities of data at vastly improved speeds It constitutes a potentially decisive contribution to the pursuit of faster and more capacious VLSI chips In Artificial Plasmonics for VLSI Interconnects readers will also find A cutting edge new approach supported by pioneering research Detailed discussion of essential components related to the development of THz interconnect technology including theory modeling simulation and validation Roadmap to future technological development in the branch of artificial plasmonics Artificial Plasmonics for VLSI Interconnects is ideal for engineers researchers and scientists working in electronics electromagnetics and optics

Empire of the Sum Keith Houston, 2023-08-22 A New York Times Book Review Editors Choice A lively entertaining history New York Times Book Review Editors Choice The hidden history of the pocket calculator a device that ushered in modern mathematics helped build the atomic bomb and went with us to the moon and the mathematicians designers and inventors who brought it to life Starting with hands abacus and slide rule humans have always reached for tools to simplify math Pocket sized calculators ushered in modern mathematics helped build the atomic bomb took us to the bottom of the ocean and accompanied us to the moon The pocket calculator changed our world until it was supplanted by more modern devices that in a cruel twist of irony it helped to create The calculator is dead long live the calculator In this witty mathematic and social history Keith Houston transports readers from the nascent economies of the ancient world to World War II where a Jewish engineer calculated for his life at Buchenwald and into the technological arms race that led to the first affordable electronic pocket calculators At every turn Houston is a scholarly affable guide to this global history of invention Empire of the Sum will appeal to math lovers history buffs and anyone seeking to understand our trajectory to the computer age

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Forthcoming Books Rose Army,1999-04 *American Book Publishing Record* ,2002 **The British National Bibliography** Arthur James Wells,2005 **The Intel Microprocessors** Barry B. Brey,2000 Intel microprocessors have gained wide application in many areas of electronic communications control systems and desktop computer systems This practical text is written for anyone who requires or desires a thorough knowledge of microprocessor programming and interfacing Back cover **The Intel Microprocessors** Barry B. Brey,1991 *The Cumulative Book Index* ,1994 A world list of books in the English language *The Intel 32-bit Microprocessors* Barry B. Brey,1995 Coverage first concentrates on real mode assembly language programming compatible with all versions of the Intel microprocessor family and compares and contrasts advanced family member with the foundational 8086 8088 This building block presentation is effective because the Intel family units are so similar that learning advanced versions is easy once the basics are understood **The Intel Microprocessors** Barry B. Brey,1993 **The Intel Microprocessors** Barry B. Brey,1997 This fourth edition of The Intel Microprocessors 8086 8088 80186 80286 80386 80486 Pentium and Pentium Pro Processor Architecture Programming and Interfacing is a practical book for anyone interested in all programming and interfacing aspects of this important microprocessor family **The Intel Microprocessors** Barry B. Brey,1997 **Brey** Barry B. Brey,2013-11-01 Keeping students on the forefront of technology this text offers a practical reference to all programming and interfacing aspects of the popular Intel microprocessor family [Intel Microprocessors 8086/808880186/80188802868038680486pentium and Pentium Pro Processor: Architecture Programming and Interfacing](#) Barry B. Brey,1997 [The Intel Microprocessors](#) Barry B. Brey,2009

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