



# Computer Architecture: A Quantitative Approach

By John L. Hennessy, David A. Patterson

ELSEVIER SCIENCE TECHNOLOGY, United States, 2011. Paperback. Book Condition: New. 5th Revised edition. 229 x 188 mm. Language: English . Brand New Book. Computer Architecture: A Quantitative Approach explores the ways that software and technology in the cloud are accessed by digital media, such as cell phones, computers, tablets, and other mobile devices. The book became a part of Intel's 2012 recommended reading list for developers, and it covers the revolution of mobile computing. The text also highlights the two most important factors in architecture today: parallelism and memory hierarchy. The six chapters that this book is composed of follow a consistent framework: explanation of the ideas in each chapter; a crosscutting issues section, which presents how the concepts covered in one chapter connect with those given in other chapters; a putting it all together section that links these concepts by discussing how they are applied in real machine; and detailed examples of misunderstandings and architectural traps commonly encountered by developers and architects. The first chapter of the book includes formulas for energy, static and dynamic power, integrated circuit costs, reliability, and availability. Chapter 2 discusses memory hierarchy and includes discussions about virtual machines, SRAM and DRAM technologies, and...



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