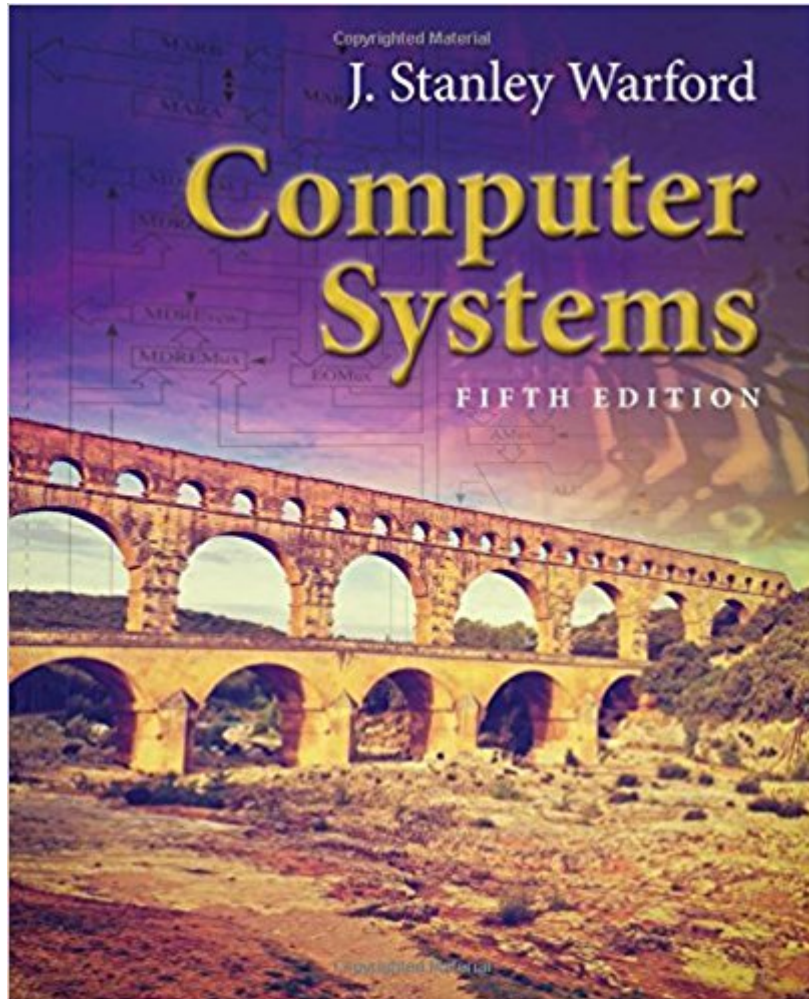




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Computer Systems



Synopsis

Computer Systems, Fifth Edition provides a clear, detailed, step-by-step introduction to the central concepts in computer organization, assembly language, and computer architecture. It urges students to explore the many dimensions of computer systems through a top-down approach to levels of abstraction. By examining how the different levels of abstraction relate to one another, the text helps students look at computer systems and their components as a unified concept.

New & Key Features:

- New high-order language • The high-order language is changed from C++ to C. The C language is more common as a systems programming language and is more appropriate for a computer systems text.
- New sidebars • Each sidebar is a real-world example of the concepts described in that chapter. As most of the chapters describe the Pep/9 virtual machine, the sidebars for those chapters show corresponding implementations for the Intel x86 architecture.
- New and expanded topics • New and expanded topics include, QR codes, color displays, Unicode, UTF-32 and UTF-8 encoding, floating point underflow, big-endian and little-endian order, memory alignment issues, and expanded RISC design principles and MIPS coverage to contrast with the Pep/9 CISC design.
- New virtual machine • Pep/8, the virtual machine for the two previous editions, is now superseded by the new and improved Pep/9. Pep/9 retains the same eight addressing modes of Pep/8 but now includes memory-mapped I/O, an improved return-from-subroutine instruction, a new native compare-byte instruction, improved instruction mnemonics, and a new hexadecimal output trap instruction.
- New software • The Pep/9 system in the text is supported by two updated open source software applications, the assembler/simulator and the CPU simulator.

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Customer Reviews

Excellent text on levels of computer languages updated with more recent "memory model" integrating input and output the Apple Ipod cast free from Apples site allows the author John W to explain text in front of his class questions from student supplements text

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