



# Principles of Computer Hardware

*Alan Clements*

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## **Principles of Computer Hardware** Alan Clements

Completely updated and revised throughout, the fourth edition of *Principles of Computer Hardware* explores the fundamentals of computer structure, architecture, and programming.

The book opens with an introduction to the fundamental concepts behind computer architecture: gates, circuits, logic, and computer arithmetic. It goes on to discuss computer operation from instruction set architecture and assembly language programming to the central processing unit. Then, the text builds on these foundations; explaining how the hardware interfaces with its surroundings, introducing computer memory, operating systems, and computer peripherals.

With clear, concise explanations throughout, *Principles of Computer Hardware*, Fourth Edition, is ideal for undergraduate courses in computer architecture.

## **Student CD--Included with Every Copy of the Text**

- Features a Windows-based simulator for the student to explore the design of digital circuits
- Includes Windows and DOS-based 68K simulators for students to investigate the operation of the 68K processor
- Contains an ARM simulator that allows students to write programs for a RISC processor and run them on a PC

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- Provides a bank of multiple-choice tests
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