



# Principles of Computer Hardware (With CD-ROM)

*Alan Clements*

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# Principles of Computer Hardware (With CD-ROM)

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## **Principles of Computer Hardware (With CD-ROM)** Alan Clements

Ideal for courses in computer hardware, architecture, or digital design, *The Principles of Computer Hardware, 3/e*, provides a comprehensive introduction to the subject. In Alan Clement's noted student-friendly style, it covers core topics including Boolean algebra and logic design; number bases and binary arithmetic; the CPU; assembly language; memory systems; and input/output methods and devices. It then continues with a discussion of the related topics of computer peripherals, the hardware aspects of the operating system, and data communications. This accessible text covers both the 68000 and ARM architectures in a tutorial/lab-based style suitable for a variety of courses. All chapters in this third edition have been rigorously updated. Powerful new Windows-based simulation software allows students to visualize the design of digital circuits. The chapter on RISC has been completely rewritten to include the ARM computer, and the tutorial-based introduction to assembly language now includes many examples.

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