

- 1 Introduction to the Microprocessor and Computer
- 2 The Microprocessor and Its Architecture
- 3 Addressing Modes
- 4 Data Movement Instructions
- 5 Arithmetic and Logic Instructions
- 6 Program Control Instructions
- 7 Programming the Microprocessor
- 8 Using Assembly Language with C/C++
- 9 8086/8088 Hardware Specifications
- 10 Memory Interface
- 11 Basic I/O Interface
- 12 Interrupts
- 13 Direct Memory Access and DMA-Controlled I/O
- 14 The Arithmetic Coprocessor and MMX Technology
- 15 Bus Interface
- 16 The 80186, 80188, and 80286 Microprocessors
- 17 The 80386 and 80468 Microprocessors
- 18 The Pentium and Pentium Pro Microprocessors
- 19 The Pentium II, Pentium III, and Pentium 4 Microprocessors
- Appendix A The Assembler, Disk Operating System, Basic I/O System, Mouse, and DPMI Memory Manager
- Appendix B Instruction Set Summary
- Appendix C Flag-Bit Changes
- Appendix D Answers to Selected Even-Numbered Questions and Problems
- Index