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Autore	Abd-El-Barr Mostafa
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Reading; 4. Computer Arithmetic; 4.1. Number Systems; 4.2. Integer Arithmetic; 4.3 Floating-Point Arithmetic; 4.4 Summary; Exercises; References and Further Reading; 5. Processing Unit Design; 5.1. CPU Basics; 5.2. Register Set; 5.3. Datapath; 5.4. CPU Instruction Cycle; 5.5. Control Unit; 5.6. Summary; Exercises; References; 6. Memory System Design I; 6.1. Basic Concepts; 6.2. Cache Memory
6.3. SummaryExercises; References and Further Reading; 7. Memory System Design II; 7.1. Main Memory; 7.2. Virtual Memory; 7.3. Read-Only Memory; 7.4. Summary; Exercises; References and Further Reading; 8. Input-Output Design and Organization; 8.1. Basic Concepts; 8.2. Programmed I/O; 8.3. Interrupt-Driven I/O; 8.4. Direct Memory Access (DMA); 8.5. Buses; 8.6. Input-Output Interfaces; 8.7. Summary; Exercises; References and Further Reading; 9 Pipelining Design Techniques; 9.1. General Concepts; 9.2. Instruction Pipeline; 9.3. Example Pipeline Processors; 9.4. Instruction-Level Parallelism
9.5. Arithmetic Pipeline9.6. Summary; Exercises; References and Further Reading; 10 Reduced Instruction Set Computers (RISCs); 10.1. RISC/CISC Evolution Cycle; 10.2. RISCs Design Principles; 10.3. Overlapped Register Windows; 10.4. RISCs Versus CISCs; 10.5. Pioneer (University) RISC Machines; 10.6. Example of Advanced RISC Machines; 10.7. Summary; Exercises; References and Further Reading; 11 Introduction to Multiprocessors; 11.1. Introduction; 11.2. Classification of Computer Architectures; 11.3. SIMD Schemes; 11.4. MIMD Schemes; 11.5. Interconnection Networks
11.6. Analysis and Performance Metrics11.7. Summary; Exercises; References and Further Reading; Index

Sommario/riassunto

This is the first book in the two-volume set offering comprehensive coverage of the field of computer organization and architecture. This book provides complete coverage of the subjects pertaining to introductory courses in computer organization and architecture, including:* Instruction set architecture and design* Assembly language programming* Computer arithmetic* Processing unit design* Memory system design* Input-output design and organization* Pipelining design techniques* Reduced Instruction Set Computers (RISCs)The authors, who share over 15 years of

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Nota di contenuto	Front cover; Contents; Preface; Acknowledgment; Editors; Contributors; Chapter 1. Introduction; Chapter 2. Methods of and Problems in Analyzing Pesticide Residues in the Environment; Chapter 3. Pesticides: Past, Present, and Future; Chapter 4. Scope and Limitations of Neem Products and Other Botanicals in Plant Protection: A Perspective; Chapter 5. Analysis of Pesticides in Food Samples by Supercritical Fluid Chromatography; Chapter 6. Disposable Electrochemical Biosensors for Environmental Analysis Chapter 7. Determination of Pesticides by Matrix Solid-Phase Dispersion and Liquid Chromatography- Tandem Mass SpectrometryChapter 8. Analysis of Pesticide Residue Using Electroanalytical Techniques; Chapter 9. Use of Planar Chromatography in Pesticide Residue Analysis; Chapter 10. Role of Surfactants in Thin-Layer Chromatography of Pesticides; Chapter 11. Pressurized Liquid Extraction and Liquid Chromatographic Analysis of Pesticide Residues; Chapter 12. Analysis of Pesticides by Chemiluminescence Detection Chapter 13. Simple and Affordable Methods: Spectrophotometric, Thin-Layer Chromatographic, and Volumetric Determination of Pesticide ResiduesChapter 14. Recent Trends in Sample Preparation for Pesticide

Analysis; Chapter 15. Medicinal Plants, Pesticide Residues, and Analysis; Chapter 16. Sample Preparation and Quantification of Pesticide Residues in Water; Chapter 17. Analysis of Pesticide Residues in Milk, Eggs, and Meat; Chapter 18. Determination of Pesticide Residues in Fruits and Vegetables by Using GC-MS and LC-MS; Chapter 19. Pesticides in Fish and Wildlife
Chapter 20. Determination of Pesticides in Human Blood and Urine by High-Performance Liquid ChromatographyChapter 21. Analysis of Pesticide Residues in Animal Feed; Chapter 22. Analysis of Pesticide Residues in Soils; Index; Index; Back cover

Sommario/riassunto

This handbook provides a systematic description of the principles, procedures, and technology of the modern analytical techniques used in the detection, extraction, clean up, and determination of pesticide residues present in the environment. This book provides the historical background of pesticides and emerging trends in pesticide regulation. The text discusses various techniques for analysis, including supercritical fluid extraction, disposable electrochemical biosensors, matrix solid-phase dispersion, volatmetric methods, and liquid chromatography. The authors also address the scope and