



# **Advanced Computer Architecture and Parallel Processing (Wiley Series on Parallel and Distributed Computing) (v. 2)**

*By Hesham El-Rewini, Mostafa Abd-El-Barr*

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Computer architecture deals with the physical configuration, logical structure, formats, protocols, and operational sequences for processing data, controlling the configuration, and controlling the operations over a computer. It also encompasses word lengths, instruction codes, and the interrelationships among the main parts of a computer or group of computers. This two-volume set offers a comprehensive coverage of the field of computer organization and architecture.

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## Editorial Review

### Review

"This outstanding treatise...allows students and professionals to become familiar with the inner workings of an inherently complex architecture." (*CHOICE*, July 2005)

### From the Back Cover

### **An Outstanding Resource for Mastering Computer Architecture and Parallel Processing**

This text enables students and practitioners to quickly master the complexities of advanced computer architecture and parallel processing. The authors have drawn from their own experience to present outstanding coverage of the complexities of advanced computer architecture and parallel processing. Using real-world examples and case studies, students and practitioners will understand the interaction between the hardware and software parts of the system. Focussing on practical solutions—from architectural to software issues—the book discusses key topics including:

- Multiprocessors interconnection networks
- Performance analysis of multiprocessor architecture
- Shared memory architecture
- Message passing architecture
- Abstract models
- Network computing
- Parallel programming in PVM
- Message passing interface (MPI)
- Scheduling and task allocation

The logical organization of the text is designed to help readers build on their knowledge as they progress from one chapter to the next: from problem sets based on actual issues in the workplace that test readers' knowledge, to end-of-chapter references directing readers to additional sources for in-depth research, and chapter summaries offering a concise overview of the key points.

With its comprehensive coverage, *Advanced Computer Architecture and Parallel Processing* simplifies course material development for instructors and helps readers learn faster, thanks to its logical organization, clear style, and practical examples. It is an excellent learning aid for both graduate and undergraduate students in electrical engineering, computer engineering, and computer science. Moreover, engineers and programmers will find it to be an outstanding on-the-job reference.

### About the Author

HESHAM EL-REWINI, PHD, PE, is a full professor and chairman of the Department of Computer Sciences and Engineering at Southern Methodist University (SMU). He has co-authored several books, published numerous research papers in journals and conference proceedings, and chaired many international conferences.

MOSTAFA ABD-EL-BARR, PHD, PEnG, is a professor and chairman of the Department of Information Science at Kuwait University. He has co-authored two other books, published more than 120 research papers

in journals and conference proceedings, and served as chair for a number of international conferences and symposia.

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