

Fundamentals of Performance Evaluation of Computer and Telecommunications Systems

By Mohammed S. Obaidat, Noureddine A. Boudriga



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The only singular, all-encompassing textbook on state-of-the-art technical performance evaluation

Fundamentals of Performance Evaluation of Computer and Telecommunication Systems uniquely presents all techniques of performance evaluation of computers systems, communication networks, and telecommunications in a balanced manner. Written by the renowned Professor Mohammad S. Obaidat and his coauthor Professor Noureddine Boudriga, it is also the only resource to treat computer and telecommunication systems as inseparable issues. The authors explain the basic concepts of performance evaluation, applications, performance evaluation metrics, workload types, benchmarking, and characterization of workload. This is followed by a review of the basics of probability theory, and then, the main techniques for performance evaluation—namely measurement, simulation, and analytic modeling—with case studies and examples.

- Contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach
- Reviews measurement tools, benchmark programs, design of experiments, traffic models, basics of queueing theory, and operational and mean value analysis
- Covers the techniques for validation and verification of simulation as well as random number generation, random variate generation, and testing with examples
- Features numerous examples and case studies, as well as exercises and problems for use as homework or programming assignments

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Sales Rank: #3618049 in Books
Published on: 2010-01-26
Original language: English

• Number of items: 1

• Dimensions: 6.50" h x 1.20" w x 6.40" l, 1.75 pounds

• Binding: Hardcover

• 459 pages

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