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random variables; 5.3 Probability distributions; 5.4 Densities; 5.5 Expectation; 5.6 Some example probability distributions; 5.7 Summary; Chapter 6. Stochastic Processes; 6.1 Introduction; 6.2 Basic definitions; 6.3 Poisson process; 6.4 Birth-death process; 6.5 Markov process; 6.6 Summary; Chapter 7. Queuing Theory; 7.1 Queuing systems; 7.2 Networks of queues
7.3 Estimating parameters and distributions 7.4 Computational methods for queuing network solutions; 7.5 Summary; Chapter 8. Simulation Analysis; 8.1 Simulation process; 8.2 Time control; 8.3 Systems and modeling; 8.4 Simulation languages; 8.5 Applications of simulation; 8.6 Summary; Chapter 9. Petri Nets; 9.1 Introduction; 9.2 Basic notation; 9.3 Classical Petri nets; 9.4 Timed Petri nets; 9.5 Priority-based Petri nets; 9.6 Colored Petri nets; 9.7 Generalized Petri nets; 9.8 Summary; Chapter 10. Hardware Testbeds, Instrumentation, Measurement, Data Extraction, and Analysis
10.1 Derivation of performance evaluation parameters 10.2 Network performance tests; 10.3 General methods of data extraction; 10.4 Testbed and model workloads; 10.5 Experimental design; 10.6 Data presentation; 10.7 Summary; Chapter 11. System Performance Evaluation Tool Selection and Use; 11.1 Tool selection; 11.2 Validation of results; 11.3 Conducting experiments; 11.4 Performance metrics; 11.5 Evaluation; 11.6 Summary; Chapter 12. Analysis of Computer Architectures; 12.1 Introduction; 12.2 Case I: Central server computer system; 12.3 Case II: Multiple server computer system
12.4 Case III: Petri net example

Sommario/riassunto

Computer Systems Performance Evaluation and Prediction bridges the gap from academic to professional analysis of computer performance. This book makes analytic, simulation and instrumentation based modeling and performance evaluation of computer systems components understandable to a wide audience of computer systems designers, developers, administrators, managers and users. The book assumes familiarity with computer systems architecture, computer systems software, computer networks and mathematics including calculus and linear algebra. Fills the void between engineering practic
