
Computer systems design is full of conundrums: Given a choice between a single machine with speed $s$, or $n$ machines each with speed $s/n$, which should we choose? If both the arrival rate and service rate double, will the mean response time stay the same? Should systems really aim to balance load, or is this a convenient myth? If a scheduling policy favors one set of jobs, does it necessarily hurt some other jobs, or are these "conservation laws" being misinterpreted? Do greedy, shortest-delay, routing strategies make sense in a server farm, or is what's good for the individual disastrous for the system as a whole? How do high job size variability and heavy-tailed workloads affect the choice of a scheduling policy? How should one trade off energy and delay in designing a computer system? If 12 servers are needed to meet delay guarantees when the arrival rate is 9 jobs/sec, will we need 12,000 servers when the arrival rate is 9,000 jobs/sec? Tackling the questions that systems designers care about, this book brings queueing theory decisively back to computer science. The book is written with computer scientists and engineers in mind and is full of examples from computer systems, as well as manufacturing and operations research. Fun and readable, the book is highly approachable, even for undergraduates, while still being thoroughly rigorous and also covering a much wider span of topics than many queueing books. Readers benefit from a lively mix of motivation and intuition, with illustrations, examples, and more than 300 exercises - all while acquiring the skills needed to model, analyze, and design large-scale systems with good performance and low cost. The exercises are an important feature, teaching research-level counterintuitive lessons in the design of computer systems. The goal is to train readers not only to customize existing analyses but also to invent their own.

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Queueing Modelling Fundamentals With Applications in Communication Networks, Chee Hock Ng, Professor Soong Boon-Hee, Soong Boon-Hee, Apr 30, 2008, Mathematics, 292 pages. Queueing analysis is a vital tool used in the evaluation of system performance. Applications of queueing analysis cover a wide spectrum from bank automated teller machines to.


Stochastic Modeling in Broadband Communications Systems, Ingemar Kaj, 2002, Broadband communication systems, 177 pages. Provides a concise overview of stochastic models and
mathematical techniques for solving challenging mathematical and statistical problems and enhances readers' overall.


A First Course in Stochastic Processes, Volume 1, Samuel Karlin, Howard M. Taylor, 1975, Mathematics, 557 pages. Elements of stochastic processes; Markov chains; The basic limit theorem of markov chains and applications; Classical examples of continuous time markov chains; Renewal.

Performance and QoS of next generation networking proceedings of the International Conference on the Performance and Qos of Next Generation Networking, P&Qnet2000, Nagoya, Japan, November 2000, Kunio Goto, Dec 28, 2000, Computers, 380 pages. The rapid advancement of key communication technologies such as, optical and radio transmission, coding schemes, and switching mechanisms, has meant that communication networks.


Computer networking and performance evaluation proceedings of the IFIP WG 7.3 International Seminar on Computer Networking and Performance Evaluation, 18-20 September 1985, Tokyo, Japan, Toshiharu Hasegawa, Hideaki Takagi, IFIP Working Group 7.3 on Computer System Modelling, 1986, Computers, 516 pages. The remarkable advances in digital communication techniques have made computer networking and its performance evaluation very important and attractive when coping with the.

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Stochastic Modeling and Simulation of Nonstationary Queueing Networks Using Markovian Processes, Ira Gerhardt, 2009, , 187 pages. In this dissertation we contribute to three areas in the stochastic modeling and simulation of nonstationary queueing networks. First, we provide a comprehensive survey of.
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