Stochastic Models in Queueing Theory, Second Edition

By Jyotiprasad Medhi

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This is a graduate level textbook that covers the fundamental topics in queuing theory. The book has a broad coverage of methods to calculate important probabilities, and gives attention to proving the general theorems. It includes many recent topics, such as server-vacation models, diffusion approximations and optimal operating policies, and more about bulk-arrival and bull-service models than other general texts.

* Current, clear and comprehensive coverage
* A wealth of interesting and relevant examples and exercises to reinforce concepts
* Reference lists provided after each chapter for further investigation

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Editorial Review

Review
"The writing is very clear, with good style and full of details which will help the students immensely."
? Svetlozar Rachev, University of California, Santa Barbara

"The outstanding feature of the text is the mathematical development and its references to associated research. The extended reference list would also be valuable..."
-Donald E. Miller, Notre Dame University, Indiana

"*Stochiastic Models in Queueing Theory* contains a well organized and relatively concise presentation of classical queuing results, with a good historical perspective, nicely challenging homework problems, and a general applications orientation. It includes more comprehensive coverage of bulk input and service systems than most other introductory texts, as well as recent work motivated by telecommunications problems."
-Sarah M. Ryan, Iowa State University, JOURNAL OF AMERICAN STATISTICAL ASSOCIATION, 2005

From the Back Cover
Medhi's second edition provides clear, comprehensive coverage of stochastic queueing models and their most recent innovations. Among its features are a wealth of compelling and relevant examples and exercises. These along with numerous discussions help readers understand queueing theory and demonstrate its wide applicability in several areas of modern technology. Generous updated reference lists follow each chapter to give readers ample and convenient opportunities for further investigation in this ever-growing field.

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