

Recent Papers by IBM Authors

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◆ Journals are listed alphabetically by title; papers are listed sequentially for each journal.

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• Book abstract

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The purpose of this book is to make performance modeling methodology accessible to a wide audience of system designers, system developers, and others who would benefit from modeling. As far as possible, it avoids sophisticated mathematics and deals with modeling on an intuitive basis. The basic format of the book is to introduce the concepts of modeling and then to examine the practical application of these concepts in a series of six case studies. A dominant factor in computer systems performance is queuing for system resources. Thus the focus of attention is on models which consist of a network of queues (for system resources). After a chapter on general principles, three chapters are devoted to queuing network models with feasible numerical solutions. Many models of interest preclude exact numerical solution, so there are chapters on approximate solution and simulation solution of queuing networks.