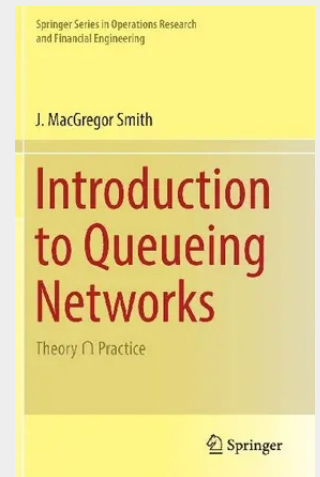


Introduction to Queueing Networks

The book examines the performance and optimization of systems where queueing and congestion are important constructs. Both finite and infinite queueing systems are examined. Many examples and case studies are utilized to indicate the breadth and depth of the queueing systems and their range of applicability. Blocking of these processes is very important and the book shows how to deal with this problem in an effective way and not only compute the performance measures of throughput, cycle times, and WIP but also to optimize the resources within these systems.

The book is aimed at advanced undergraduate, graduate, and professionals and academics interested in network design, queueing performance models and their optimization. It assumes that the audience is fairly sophisticated in their mathematical understanding, although the explanations of the topics within the book are fairly detailed.

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128,39 €

119,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319788210

Medium: Buch

ISBN: 978-3-319-78821-0

Verlag: Springer

Erscheinungstermin: 06.09.2018

Sprache(n): Englisch

Auflage: 1. Auflage 2018

Serie: Springer Series in Operations Research and Financial Engineering

Produktform: Gebunden

Gewicht: 1039 g

Seiten: 562

Format (B x H): 160 x 241 mm

