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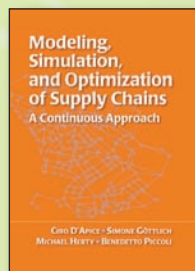
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Modeling, Simulation, and Optimization of Supply Chains:

A Continuous Approach

Ciro D'Apice, Simone Göttlich, Michael Herty, and Benedetto Piccoli

Available
JUNE



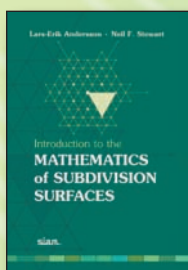
This book offers a state-of-the-art introduction to the mathematical theory of supply chain networks, focusing on those described by partial differential equations. The authors discuss modeling of complex supply networks as well as their mathematical theory; explore modeling, simulation, and optimization of some of the discussed models; and present analytical and numerical results on optimization problems.

June 2010 · Approx. x + 206 pages · Softcover · ISBN 978-0-898717-00-6
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Introduction to the Mathematics of Subdivision Surfaces

Neil F. Stewart and Lars-Erik Andersson

NEW



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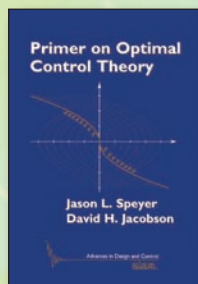
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Jason L. Speyer and David H. Jacobson

Advances in Design and Control 20

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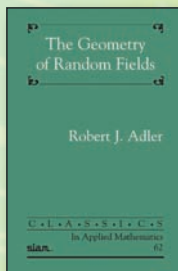
The performance of a process can be enhanced when the most effective controls and operating points for the process are determined. The authors provide a rigorous introduction to analyzing these processes and finding the best modes of control and operation for them. It makes optimal control theory accessible to a large class of engineers and scientists who are not mathematicians.

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Robert J. Adler

Classics in Applied Mathematics 62



Originally published in 1981, this remains an important text for its coverage and exposition of the theory of both smooth and nonsmooth random fields; closed form expressions for various geometric characteristics of the excursion sets of smooth, stationary, Gaussian random fields over N-dimensional rectangles; descriptions of the local behavior of random fields in the neighborhoods of high maxima; and more.

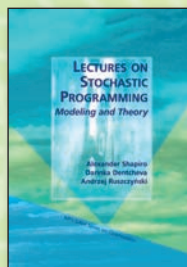
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Alexander Shapiro, Darinka Dentcheva, and Andrzej Ruszczyński

MPS/SIAM Series on Optimization 9



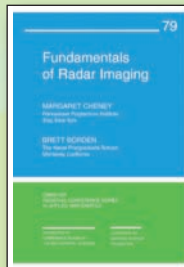
Optimization problems involving stochastic models occur in almost all areas of science and engineering. Their existence compels a need for rigorous ways of formulating, analyzing, and solving such problems. This book focuses on optimization problems involving uncertain parameters and covers the theoretical foundations and recent advances in areas where stochastic models are available.

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Margaret Cheney and Brett Borden

CBMS-NSF Regional Conference Series in Applied Mathematics 79



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