Mathematical and Computational Models: Recent Trends

By R. Nadarajan, G.A. Vijayalakshmi Pai & G. Sai Sundara Krishnan (Eds)

Narosa Publishing House, 2010. Hardcover. Book Condition: New. With solutions to problems turning cross-disciplinary, researchers and scientists have begun to look for mathematical or computational models or their hybrid combinations, that can serve to yield efficient solutions to the problems concerned. Mathematical and Computational Models presents state-of-the-art discussions on solutions to various problems spanning the disciplines of Stochastic methods and Optimization techniques, Graph Theory, Cryptography and Security in computing, Computational intelligence, Data mining and Machine learning. Table of Contents Preface / Acknowledgements / Stochastic Models and Optimization Techniques ? A Discrete-time Queueing Model with Abandonments / An Analysis and Design of a Hidden Markov Model for Production Management / On Numerical Solution of Stochastic Delay Differential Equations with Markovian Switching and Poisson Jump / M/M/1 Retrial Queueing System with Pre-emptive Priority Service and Single Vacation-Bernoulli Schedule Type / Economic Order Quantity Models for Deteriorating Items with Shortages and Partial Backlogging Under Stock-dependent Demand and Time Discounting / A Stochastic Model for the Expected Time to Recruitment in a Single Graded Manpower System with Two Types of Thresholds and Correlated Inter-decision Times / M/M/1 Retrial Queueing System with Priority Service by Matrix Geometric Method / M/M/1 Queueing System with Breakdown and...

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