Computational and Mathematical Modelling

By R. Nadarajan, R.S. Lekshmi & G. Sai Sundara Krishnan (Eds)

Narosa Publishing House, 2012. Hardcover. Book Condition: New. Mathematical and Computational Models developed are innovative outcomes of interdisciplinary research in the field of Engineering, Computer Science and Mathematics. Modelling is an important aspect of scientific research. Physicists, engineers, computer scientists and economists use Mathematical Models most extensively. This volume presents state-of-the-art discussions on solutions to various problems spanning the disciplines of Queueing Models, Inventory Models, Fuzzy Model, Optimization Techniques, Manpower systems, Graph Theory and Applications, Theoretical Computer Science, Computational Intelligence and General Mathematical Modeling. Table of Contents Preface / Acknowledgements / QUEUEING MODELS - Dual Tandem Queues with System BMAP/G/1 at the First Station and Operation of the Second Station described by Markov Chain with a Finite State Space / How Much Retrials Increase Traffic Burstiness? / The Downs-Thomson Paradox Revisited / Stochastic Modelling and Simulation in Healthcare System / On a Multiserver Retrial Queue with Phase Type Retrial Time / A Batch Arrival Queuing System with a Second Optimal Service under (m,N) Policy and Single Bernoulli Vacation / Exact Transient Solution of M/M/1 Queue with Working Vacation / Optimal Design of (m,N) Policy Batch Arrival Queue with Unreliable Server?s Single Vacation Setup Time and Second Optional Service / A...

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