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Modern Simulation and Modeling Reuven Y. Rubinstein, Benjamin Melamed, 1998-03-09 A step by step guide for today's modeling and simulation practices This new guide for modeling and simulation of discrete event systems DES demonstrates why simulation is fast becoming the method of choice for the evaluation of system performance in science engineering and management The book begins with the basics of conventional simulation then proceeds to modern simulation treating sensitivity analysis and optimization in a wide range of systems that exhibit complex interaction of discrete events These include communications networks flexible manufacturing systems PERT project evaluation and review techniques networks queueing systems and more Less focused on theory than on presenting a clear approach to practical applications Modern Simulation and Modeling Emphasizes concepts rather than mathematical completeness Integrates references and explanations of complex topics into the body of the text Provides an innovative chapter on rare event probability estimation Describes the implementation of the score function SF method using the NSO simulation package Features 40 illustrations and numerous algorithms Offers extensive end of chapter exercise sets Includes chapter bibliographies for further reading Modern Simulation and Modeling is an essential text for graduate students of DES and stochastic processes and for undergraduate students in simulation It is also an excellent reference for professionals in statistics and probability mathematics and management science

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