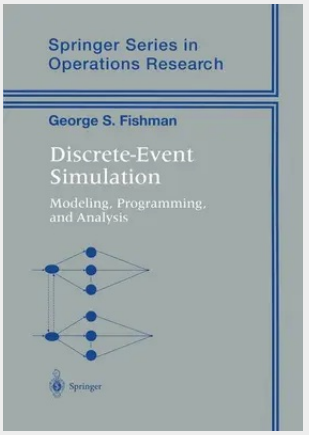
Fishman

Discrete-Event Simulation

Modeling, Programming, and Analysis



Discrete-event simulation consists of a collection of techniques that when applied to a discrete-event dynamical system, generates sequences called sample paths that characterize its behavior. The collection includes modelling concepts for abstracting the essential features of a system, using specially designed software for converting these relationships into computer executable code capable of generating the requisite sample-path data; outlining procedures for converting these data into estimates of systems performances; and then illustrating methods for assessing how well these estimates approximate true, but unknown system behavior.
This book is intended for upper level undergraduate and graduate students in operations research and management science, mathematics, industrial engineering, computer science, and business and features extensive exercises throughout. This concept of modelling complex sytems allows a relatively low-cost way of gathering information for decision-making.
Principally offered are four problems for student exercises; each is progressively brought forward through the modelling, programming, and analysis chapters, providing continuity to the learning process.

This book is designed for upper level undergraduate students and first year graduates taking a first course in simulation. The author takes the approach of carrying common examples throughout the text and each chapter has a large number of exercises covering a great variety of applications areas (computer systems, inventory/supply chain management, telecommuniations systems, reliability models, etc).

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