

Foundations Of Stochastic Inventory Theory

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Decision Criteria and Optimal Inventory Processes
Some applications of stochastic processes to inventory theory
Perishable Inventory Systems
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Production and Operations Analytics
Inventory Theory and Consumer Behavior
Conditional Monte Carlo
Management
Inventory in Theory and Practice
Manufacturing Planning and Control for Supply Chain Management
Interfaces
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this book has a dual purpose serving as an advanced textbook designed to prepare doctoral students to do research on the mathematical foundations of inventory theory and as a reference work for those already engaged in such research all chapters conclude with exercises that either solidify or extend the concepts introduced

in 1958 stanford university press published studies in the mathematical theory of inventory and production edited by kenneth j arrow samuel karlin and herbert scarf which became the pioneering road map for the next forty years of research in this area one of the outgrowths of this research was development of the field of supply chain management which deals with the ways organizations can achieve competitive advantage by coordinating the activities involved in creating products including designing procuring transforming moving storing selling providing after sales service and recycling following in this tradition foundations of stochastic inventory theory has a dual purpose serving as an advanced textbook designed to prepare doctoral students to do research on the mathematical foundations of inventory theory and as a reference work for those already engaged in such research the author begins by presenting two basic inventory models the economic order quantity model which deals with cycle stocks and the newsvendor model which deals with safety stocks he then describes foundational concepts methods and tools that prepare the reader to analyze inventory problems in which uncertainty plays a key role dynamic optimization is an important part of this preparation which emphasizes insights gained from studying the role of uncertainty rather than focusing on the derivation of numerical solutions and algorithms with the exception of two chapters on computational issues in infinite horizon models all fourteen chapters in the book and four of the five appendixes conclude with exercises that either solidify or extend the concepts introduced some of these exercises have served as ph d qualifying examination questions in the operations information and technology area of the stanford graduate school of business

the paper surveys recent work in stochastic inventory theory areas emphasized include multi product models multi echelon models and stationary analysis of inventory models some concluding remarks are made about the future of the subject author

this text presents a complete treatment of inventory theory and models coverage is organized into an introductory section followed by a second which focuses on predictable supply and demand and the third section covering stochastic inventory

models many developments related to inventory such as erp supply chain management jit and erp systems are integrated within the text

decision criteria and optimal inventory processes provides a theoretical and practical introduction to decision criteria and inventory processes inventory theory is presented by focusing on the analysis and processes underlying decision criteria included are many state of the art criterion models as background material these models are extended to the authors newly developed fuzzy criterion models which constitute a general framework for the study of stochastic inventory models with special focus on the real world inventory theoretic reservoir operations problems the applications of fuzzy criterion dynamic programming models are illustrated by reservoir operations including the integrated network of reservoir operation and the open inventory network problems an interesting feature of this book is the special attention it pays to the analysis of some theoretical and applied aspects of fuzzy criteria and dynamic fuzzy criterion models thus opening up a new way of injecting the much needed type of non cost intuitive and easy to use methods into multi stage inventory processes this is accomplished by constructing and optimizing the fuzzy criterion models developed for inventory processes practitioners in operations research management science and engineering will find numerous new ideas and strategies for modeling real world multi stage inventory problems and researchers and applied mathematicians will find this work a stimulating and useful reference

a perishable item is one that has constant utility up until an expiration date which may be known or uncertain at which point the utility drops to zero this includes many types of packaged foods such as milk cheese processed meats and canned goods it also includes virtually all pharmaceuticals and photographic film as well as whole blood supplies this book is the first devoted solely to perishable inventory systems the book s ten chapters first cover the preliminaries of periodic review versus continuous review and look at a one period newsvendor perishable inventory model the author moves to the basic multiperiod dynamic model and then considers the extensions of random lifetime inclusion of a set up cost and multiproduct models of perishables a chapter on continuous review models looks at one for one policies models with zero lead time optimal policies with positive lead time and an alternative approach additional chapters present material on approximate order policies inventory depletion management and

deterministic models including the basic eoq model with perishability and the dynamic deterministic model with perishability finally chapters explore decaying inventories queues with impatient customers and blood bank inventory control anyone researching perishable inventory systems will find much to work with here practitioners and consultants will also now have a single well referenced source of up to date information to work with

optimization and operations research is a component of encyclopedia of mathematical sciences in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the theme on optimization and operations research is organized into six different topics which represent the main scientific areas of the theme 1 fundamentals of operations research 2 advanced deterministic operations research 3 optimization in infinite dimensions 4 game theory 5 stochastic operations research 6 decision analysis which are then expanded into multiple subtopics each as a chapter these four volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

the icica 2010 conference provided a forum for engineers and scientists in academia industry and government to address the most innovative research and development including technical challenges and social legal political and economic issues and to present and discuss their ideas results work in progress and experience on all aspects of information computing and applications

nahmias and olsen skillfully blend comprehensive coverage of topics with careful integration of mathematics the authors decades of experience in the field contributed to the success of previous editions the eighth edition continues the long tradition of excellence clearly written reasonably priced with an abundance of expertly formulated practice problems and updated examples this textbook is essential reading for analyzing and improving all facets of operations some of the material in the newest edition has been reorganized for example the first chapter introduces service strategy the product process matrix and flexible manufacturing systems benchmarking the productivity frontier the innovation curve and lean production as a strategy the focus is slightly more international the analysis of capacity growth planning now appears in the chapter on supply chain analytics aggregate planning details were added to chapter 3 including

chase and level strategies in an appendix to the chapter there is an expanded discussion on risk pooling in the chapter on supply chain strategy the mechanics behind lean production are included in the chapter on push and pull production systems the chapter on quality and assurance downplays sampling in favor of discussions of quality management process capability and the waste elimination side of lean the separate chapter on facilities layout and location was eliminated and the information redistributed throughout the text the authors reinforce the learning process through key points at the beginning of each chapter to guide the reader snapshots that provide useful examples of applications to businesses and historical notes that provide a context for the topics discussed production and operations analytics 8 e provides the tools for adapting to the dynamic global marketplace

conditional monte carlo gradient estimation and optimization applications deals with various gradient estimation techniques of perturbation analysis based on the use of conditional expectation the primary setting is discrete event stochastic simulation this book presents applications to queueing and inventory and to other diverse areas such as financial derivatives pricing and statistical quality control to researchers already in the area this book offers a unified perspective and adequately summarizes the state of the art to researchers new to the area this book offers a more systematic and accessible means of understanding the techniques without having to scour through the immense literature and learn a new set of notation with each paper to practitioners this book provides a number of diverse application areas that makes the intuition accessible without having to fully commit to understanding all the theoretical niceties in sum the objectives of this monograph are two fold to bring together many of the interesting developments in perturbation analysis based on conditioning under a more unified framework and to illustrate the diversity of applications to which these techniques can be applied conditional monte carlo gradient estimation and optimization applications is suitable as a secondary text for graduate level courses on stochastic simulations and as a reference for researchers and practitioners in industry

vollman berry whybark and jacobs manufacturing planning control systems 5 e provides comprehensive real world based coverage of the concepts tools and methods used to manage and control manufacturing systems this major revision contains four entirely new chapters and four thoroughly upgraded to nearly original content erp system

coverage and the impact of them in the field is covered now in a new introductory chapter 4 as well as being integrated heavily into many other chapters from sales and operations planning 3 to advanced scheduling systems 16

seeks to improve communication between managers and professionals in or ms

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