
An Integrated Inventory Model For Three Tier Supply Chain

Proceedings of 20th International Conference on
Industrial Engineering and Engineering
Management

Application of Renewable Energy in Production
and Supply Chain Management

Proceedings of the 4th International
Manufacturing Engineering Conference and The
5th Asia Pacific Conference on Manufacturing
Systems

Sustainability Analysis in Integrated Inventory
Control and Transportation Systems

Theory and Applications

Operations Management and Systems
Engineering

Recent Advances in Intelligent Information
Systems and Applied Mathematics

Journal of Applied Operational Research

FOTA 2016, Kolkata, India, November 24-26

Economic and Environmental Comparison of
Different Ordering Policies for an Integrated
Inventory Control and Supplier Selection Problem

Proceedings of the International Conference on

Advances in Mathematics and Computing (ICAMC 2020)

Operations Research and Optimization
Integrated Models in Production Planning,
Inventory, Quality, and Maintenance
Application of Optimization in Production,
Logistics, Inventory, Supply Chain Management
and Block Chain

Information Technology and Applied Mathematics
Efficient Decision Support Systems

Optimization and Inventory Management
Emerging Frontiers in Operations and Supply
Chain Management

Proceedings of the Third International Conference
on Soft Computing for Problem Solving

Decision Making Systems in Business
Administration

Best Selected Papers of the Third International
Conference on REDSET 2016

Supply Chain Management
Successful Strategies in Supply Chain
Management

Predictive Analytics

Analysis of Inventory Systems

Proceedings of the Institute of Industrial
Engineers Asian Conference 2013

Advanced Manufacturing Processes, Systems and
Technologies (AMPST 99)

Volume 5, Number 2, 2013

Numerical Optimization in Engineering and
Sciences

SocProS 2013, Volume 2

Cross-Cultural Design. User Experience of Products, Services, and Intelligent Environments
ICMAAM 2018, Kolkata, India, January 9-12
Stochastic and Deterministic Models and Applications
Integrated Solid Waste Management: A Lifecycle Inventory
Advances in Manufacturing Technology XVII 2003
New Trends in Applied Analysis and Computational Mathematics
Soft Computing in Inventory Management
International Journal of Development Research and Quantitative Techniques: Vol. 2, No. 1
Practice and Challenges in Multidisciplinary Domains
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An
Integrated
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*Proceedings of 20th
International
Conference on
Industrial Engineering
and Engineering
Management* Springer

This book discusses recent developments in the vast domain of

optimization. Featuring papers presented at the 1st International Conference on Frontiers in Optimization: Theory and Applications (FOTA 2016), held at the Heritage Institute of Technology, Kolkata, on 24-26 December 2016, it opens new avenues of research in all topics related to

optimization, such as linear and nonlinear optimization; combinatorial-, stochastic-, dynamic-, fuzzy-, and uncertain optimization; optimal control theory; as well as multi-objective, evolutionary and convex optimization and their applications in intelligent information and technology, systems science, knowledge management, information and communication, supply chain and inventory control, scheduling, networks, transportation and logistics and finance. The book is a valuable resource for researchers, scientists and engineers from both academia and industry.

Application of Renewable Energy in

Production and Supply Chain Management

Springer Science & Business Media

This book analyzes the underlying theoretical principles of multi-objective linear programming problems with multi-choice parameters. It studies transportation problems on the same domain with extension to fuzzy stochastic criteria, and offers insights into sensitivity analysis through symmetric duality and complementarity using non-convex programming. These analytical presentations provide ample scope for researchers to contemplate real-world problems with an innovative vision. The formulation, analysis and solution

procedures on inventory control models in the book use both deterministic and fuzzy parameters, and provide novel optimal inventory policies. The book discusses a wide range of optimal operational techniques for policy makers, government and private agencies in the fields of e-governance and agricultural crop insurance, which are crucial for developing countries. The recommendations address the gaps and remedies in various schemes that influence decision-making in the context of the economic development of such countries.

Proceedings of the 4th International Manufacturing Engineering Conference and The 5th Asia Pacific

Conference on Manufacturing Systems

BoD - Books on Demand

The purpose of supply chain management is to make production system manage production process, improve customer satisfaction and reduce total work cost. With indubitable significance, supply chain management attracts extensive attention from businesses and academic scholars. Many important research findings and results had been achieved. Research work of supply chain management involves all activities and processes including planning, coordination, operation, control and optimization of the whole supply chain system. This book

presents a collection of recent contributions of new methods and innovative ideas from the worldwide researchers. It is aimed at providing a helpful reference of new ideas, original results and practical experiences regarding this highly up-to-date field for researchers, scientists, engineers and students interested in supply chain management.

Sustainability Analysis in Integrated Inventory Control and Transportation

Systems BoD – Books on Demand
 "This study analyzes an integrated inventory control and supplier selection problem in stochastic demand environment under carbon emissions regulations. In particular, a continuous

review inventory model with multiple suppliers is investigated under carbon taxing and carbon trading regulations. We analyze and compare the optimal supplier selection and order splitting decisions with single sourcing and two alternative delivery structures for multi-sourcing, namely, sequential ordering and sequential delivery. For each of the three ordering policies, a solution method is proposed and these policies are compared in terms of their economic as well as environmental performances. A numerical study is conducted to demonstrate the efficiencies of the solution methods proposed. Further numerical studies

analyze how the economic and environmental performances of different ordering policies vary as the supplier capacities and lead times change"-- Abstract, page iv.

Theory and Applications Springer

The volume contains original research papers as the Proceedings of the International Conference on Advances in Mathematics and Computing, held at Veer Surendra Sai University of Technology, Odisha, India, on 7-8 February, 2020. It focuses on new trends in applied analysis, computational mathematics and related areas. It also includes certain new models, image analysis

technique, fluid flow problems, etc. as applications of mathematical analysis and computational mathematics. The volume should bring forward new and emerging topics of mathematics and computing having potential applications and uses in other areas of sciences. It can serve as a valuable resource for graduate students, researchers and educators interested in mathematical tools and techniques for solving various problems arising in science and engineering.

Operations Management and Systems Engineering
Springer Nature

This book presents the proceedings of the 4th International Manufacturing

Engineering Conference and 5th Asia Pacific Conference on Manufacturing Systems (IMEC-APCOMS 2019), held in Putrajaya, Malaysia, on 21-22 August 2019. Covering scientific research in the field of manufacturing engineering, with focuses on industrial engineering, materials, processes, the book appeals to researchers, academics, scientists, students, engineers and practitioners who are interested in the latest developments and applications related to manufacturing engineering.

Recent Advances in Intelligent Information Systems and Applied Mathematics Springer Nature

This book comprises select peer-reviewed

contributions from the 6th International Conference on Production and Industrial Engineering (CPIE - 2019). The volume focuses on latest research in the field of Industrial and Systems Engineering, and its allied areas. Articles on variety of topics such as Human Factors Engineering, Lean Manufacturing, Six Sigma, Logistics and Supply Chain Management, Operations Research, Quality Engineering, Measurement and Control, Reliability and Maintenance Engineering, Green Supply Chain Management, Modelling and Simulation, Sustainability, Technology Management, Agile and Flexible

Manufacturing, Technology Management and Computer Aided Manufacturing are discussed in this book. Given the range of topics covered, the book will be useful for students, researchers, and professionals interested in different areas of Industrial and Systems Engineering. Journal of Applied Operational Research Springer
Predictive analytics refers to making predictions about the future based on different parameters which are historical data, machine learning, and artificial intelligence. This book provides the most recent advances in the field along with case studies and real-world examples. It discusses predictive modeling

and analytics in reliability engineering and introduces current achievements and applications of artificial intelligence, data mining, and other techniques in supply chain management. It covers applications to reliability engineering practice, presents numerous examples to illustrate the theoretical results, and considers and analyses case studies and real-world examples. The book is written for researchers and practitioners in the field of system reliability, quality, supply chain management, and logistics management. Students taking courses in these areas will also find this book of interest.
FOTA 2016, Kolkata, India, November 24-26

MDPI

"Due to the importance of costs as well as environmental effects of logistical activities throughout supply chains, such as inventory holding, freight transportation, and warehousing activities, this dissertation models and analyzes four integrated inventory control and transportation problems that account for economic and environmental aspects of a supply chain agents related decisions. The first model presents an integrated inventory control and transportation problem in a single item deterministic demand setting. A supply chain agents inventory control and transportation mode

selection problem is solved under carbon cap, carbon cap and trade, carbon cap and offset, and carbon tax regulations. The second model focuses on an integrated inventory control and transportation problem in a single item stochastic demand setting integrating environmental objectives into a continuous review inventory control system with considerations of two different transportation modes. The third model studies an integrated inventory control and transportation problem in a multi-item deterministic demand setting, in which, a decision making method is developed considering the economic and

environmental objectives. In the fourth model, a multi-item stochastic demand consolidation policy is analyzed with the consideration of heterogeneous freight trucks for transportation. It is shown that the consolidation policy suggested can result in substantial economic as well as environmental benefits for the supply chain agents"--Abstract, page iii.

Economic and Environmental Comparison of Different Ordering Policies for an Integrated Inventory Control and Supplier Selection Problem
Springer Science & Business Media
Building on the success of the First International

Symposium, this highly prestigious event is organised by Bradford University and the Institute of Measurement and Control. This work brings together the best of current research and development in manufacturing. Contributions from experts in industry as well as those researching in academic settings all over the world ensure that information presented here is forward looking, current, and useful.
Proceedings of the International Conference on Advances in Mathematics and Computing (ICAMC 2020) Springer Nature
This series is directed to diverse managerial professionals who are

leading the transformation of individual domains by using expert information and domain knowledge to drive decision support systems (DSSs). The series offers a broad range of subjects addressed in specific areas such as health care, business management, banking, agriculture, environmental improvement, natural resource and spatial management, aviation administration, and hybrid applications of information technology aimed to interdisciplinary issues. This book series is composed of three volumes: Volume 1 consists of general concepts and methodology of DSSs; Volume 2 consists of applications of DSSs in

the biomedical domain; Volume 3 consists of hybrid applications of DSSs in multidisciplinary domains. The book is shaped decision support strategies in the new infrastructure that assists the readers in full use of the creative technology to manipulate input data and to transform information into useful decisions for decision makers.

Operations Research and Optimization Wiley

This two-volume set LNCS 12192 and 12193 constitutes the refereed proceedings of the 12th International Conference on Cross-Cultural Design, CCD 2020, held as part of HCI International 2020 in Copenhagen, Denmark in July 2020. The conference

was held virtually due to the corona pandemic. The total of 1439 papers and 238 posters included in the 40 HCII 2020 proceedings volumes was carefully reviewed and selected from 6326 submissions. The regular papers of Cross-Cultural Design CCD 2020 presented in this volume were organized in topical sections named: Cross-Cultural User Experience Design; Culture-Based Design, Cross-Cultural Behaviour and Attitude, and Cultural Facets of Interactions with Autonomous Agents and Intelligent Environments. *Integrated Models in Production Planning, Inventory, Quality, and Maintenance* Springer Nature
This book discusses

recent advances and contemporary research in the field of cryptography, security, mathematics and statistics, and their applications in computing and information technology. Mainly focusing on mathematics and applications of mathematics in computer science and information technology, it includes contributions from eminent international scientists, researchers, and scholars. The book helps researchers update their knowledge of cryptography, security, algebra, frame theory, optimizations, stochastic processes, compressive sensing, functional analysis, and complex variables. Application of

Optimization in
Production, Logistics,
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Adapting the development of information systems for operations management is essential for the effectiveness of an organization's business strategy. *Optimizing, Innovating, and Capitalizing on Information Systems for Operations* presents research on the applications of information systems and its influence on business and operations management. Highlighting case studies, frameworks and methodologies, this book aims to be useful for practitioners and academics in the fields of decision,

management, and social sciences. *Information Technology and Applied Mathematics* Springer Nature Advances in Manufacturing Technology XVII continues a well-respected series with the papers presented at the 1st International Conference on Manufacturing Research (ICMR 2003) - incorporating the 19th National Conference on Manufacturing Research (NCFMR). This essential text provides a thorough review of all aspects of manufacturing engineering and management and will be of interest to all those involved in this rapidly advancing sphere of mechanical and manufacturing engineering. Topics

covered include Machining Processes and Tooling Forming Processes and Tools Advanced Manufacturing Techniques Advanced Manufacturing Systems Design Methods, Processes, and Systems CAD/CAM Testing/Experimentation/Metrology Internet and E-design/Manufacture Virtual Enterprise and Enterprise Integration Efficient Decision Support Systems Springer Production planning, inventory management, quality control, and maintenance policy are critical components of the manufacturing system. The effective integration of these four components gives a manufacturing operation the

competitive edge in today's global market place. Integrated Models in Production Planning, Inventory, Quality, and Maintenance provides, in one volume, the latest developments in the integration of production, quality, and maintenance models. Prominent researchers, who are actively engaged in these areas, have contributed the topical chapters focused on the most recent issues in the area. In Part I, Ben-Daya and Rahim provide an overview of the literature dealing with integrated models for production, quality, and maintenance. Directions for future research are outlined. Part II contains six chapters (chapters 2 to 6) dealing with integrated models for

production and maintenance. Part III deals with integrated production/inventory and quality models in chapters 7-11. Part IV focuses on quality and maintenance integrated models and contains two chapters. Part V deals with warranty, manufacturing, and quality and contains two chapters. Part VI addresses issues related to quality and contains three chapters (chapters 16-18).

Optimization and Inventory

Management IGI

Global

This edited book addresses the challenges in managing the operations and supply chain of organizations in the era of internet of things and Industry

4.0. It presents cutting edge research on real world operations related problems, in-depth analyses, and relevant managerial implications. Wide variety of solution approaches such as quantitative, quantitative, and simulations are presented in the context of managing the operations and supply chains. Consisting of selected papers from the XXIII Annual International Conference of Society of Operations Management, this volume is part of a two volume series with the other book consisting of chapters on quantitative decision making. This edited book covers various quantitative models on operations and supply chain management

such as inventory optimization, machine learning-operations research integrated model for healthcare systems, game-theoretic analysis of review strategies in truthful information sharing, design of contracts in supply chains, supply chain optimization, inventory routing, and shop floor scheduling. In addition to the quantitative models, several innovative heuristics are proposed for different problems. This book explores qualitative models on improving the performance of small and medium enterprises and petroleum industries and a simulation model for staff allocation in the information technology industry. Finally, this book

provides review articles on vaccine supply chains and behavioral operations management. The book throws light on the emerging trends in the use of analytics, optimization, and simulation tools and empirical analysis to improve the performance of operations and supply chains of organizations. It will serve as an essential resource for practitioners, students, faculty members and scholars in operations management and related areas to gain knowledge and pursue high quality research on developments in areas such as managing the resource management and the solution methodology--innovative tools employed in

addressing the real world problems and the different optimization techniques.

Emerging Frontiers in Operations and Supply Chain Management

Springer

The present book includes a set of selected best papers from the 3rd International Conference on Recent Developments in Science, Engineering and Technology (REDSET 2016), held in Gurgaon, India, from 21 to 22 October 2016. The conference focused on the experimental, theoretical and application aspects of innovations in computational intelligence and provided a platform for the academicians and

scientists. This book provides an insight into ongoing research and future directions in this novel, continuously evolving field. Many decades have been devoted to creating and refining methods and tools for computational intelligence such as Artificial Neural Networks, Evolutionary Computation, Fuzzy Logic, Computational Swarm Intelligence and Artificial Immune Systems. However, their applications have not yet been broadly disseminated. Computational intelligence can be used to provide solutions to many real-life problems, which could be translated into binary languages, allowing computers to process them. These problems, which

involve various fields such as robotics, bioinformatics, computational biology, gene expression, cancer classification, protein function prediction, etc., could potentially be solved using computational intelligence techniques.

Proceedings of the Third International Conference on Soft Computing for Problem Solving Springer Nature

This book examines the different motivational policies used for inventory management. In many competitive markets, sellers use motivational policies to encourage the customers to buy more and these kinds of strategies are used as competitive tools. This book brings together

all the motivational policies for lot sizing decisions and offers a useful guide for inventory control. Each chapter applies deterministic inventory models such as economic order quantity (EOQ) and economic production quantity (EPQ), but also stochastic models for the motivational policy covered. The book begins exploring quantity discounts such as all-unit and incremental discounts. It then looks at delayed payment or trade credit policies that are applied by many suppliers and/or wholesalers to increase their sales. The motivational policies covered in the following chapters are dedicated to advance payment/prepayment schemes and also

special sales offered by retailers to increase sales levels or decrease the inventory level. Finally the book concludes with a review of announced price increases, which persuades customers to buy a product at the current price, rather than paying more for it in the future. Inventory Control Models with Motivational Policies should be useful for professionals working on supply chains, but also researchers in operations research and inventory management.

Decision Making Systems in Business Administration

Springer

This book describes the latest advances in intelligent techniques such as fuzzy logic, neural networks, and optimization

algorithms, and their relevance in building intelligent information systems in combination with applied mathematics. The authors also outline the applications of these systems in areas like intelligent control and robotics, pattern recognition, medical diagnosis, time series prediction, and optimization of complex problems. By sharing fresh ideas and identifying new targets/problems it offers young researchers and students new directions for their future research. The book is intended for readers from mathematics and computer science, in particular professors and students working on theory and applications of

intelligent systems for
real-world applications.

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