

# A Green Integrated Inventory Model for a Three-Tier Supply Chain of an Agricultural Product

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## ABSTRACT

Green supply chain management coordinates environment issues into the supply chain business. It has been popular to both academicians and practitioners. Smooth supply of processed agricultural products is essential for human beings and pets. In some models, excess raw materials, byproducts and defected products are kept neglected in producing and marketing finished products. Here, we have presented a three-tier green supply chain model for an agricultural product where byproducts are used for some purposes. Solution procedure of the model is derived. We have demonstrated the model using two numerical example problems.

## Key words:

Agricultural product, green supply chain, integrated inventory, lot size, supply chain, byproduct

12/15/2020

Source of Support: None. No Conflict of Interest: Declared

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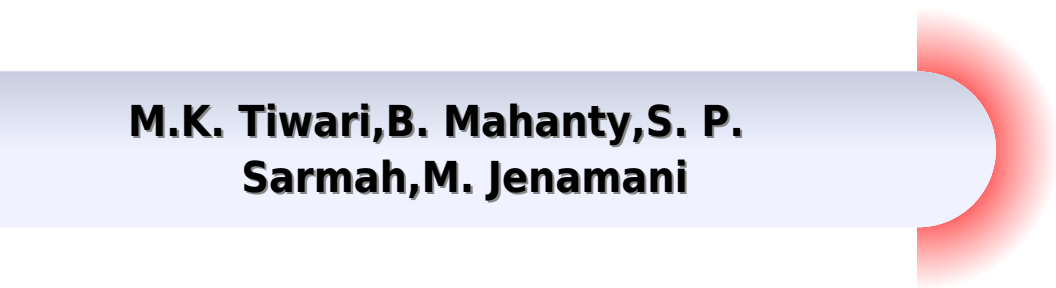
## INTRODUCTION

Controlling of environmental pollution is a burning issue in the universe. Usually, a green supply chain (SC) uses the mechanism to reduce environmental pollution during its functioning. So, the topic has got the attention of researchers worldwide. We are also interested of modeling a green supply chain problem with coordinated inventory policy. Current competitive market imposes companies to integrate with their upstream and downstream players for establishing an improved SC to minimize the management cost.

They all supply finished products to customers with reasonable prices (e.g., Gunasekaran et al. 2008; Ben-Daya and Al-Nassar 2008; Moncayo-Martinez and Zhang 2013; Islam and Hoque 2014a; Hellion et al. 2015; Islam and Hoque 2018). Modeling on integrated cost minimization using joint economic lot sizing (JELS) policy has received

# An Integrated Inventory Model For Three Tier Supply Chain

**M.K. Tiwari, B. Mahanty, S. P.  
Sarmah, M. Jenamani**



### **An Integrated Inventory Model For Three Tier Supply Chain:**

*Sustainable Inventory Management* Nita H. Shah, Mandeep Mittal, 2025-02-25 The book provides various research methods and ordering policies for inventory management in the sustainable environment in India. Sustainable inventory management is an area in which more studies from India are needed. In the age where global warming, environmental disasters, and increased public awareness about environmental issues encourage countries to reduce greenhouse gas (GHG) emissions, this book includes a collection of research studies that elaborate various inventory models to determine optimal ordering policy and provide helpful suggestions for reduction in carbon emission while managing inventory. The book is beneficial for practitioners, educators, and researchers in India and other countries. It is also helpful for retailers, managers to improve business functions and make more accurate and realistic decisions.

**Data Analytics and Artificial Intelligence for Inventory and Supply Chain Management** Dinesh K. Sharma, Madhu Jain, 2022-11-08 This book considers new analytics and AI approaches in the areas of inventory control, logistics, and supply chain management. It provides valuable insights for the retailers and managers to improve business operations and make more realistic and better decisions. It also offers a number of smartly designed strategies related to inventory control and supply chain management for the optimal ordering and delivery policies. The book further uses detailed models and AI computing approaches for demand forecasting, to planning, optimization, and digital execution tracking. One of its key features is use of real life examples, case studies, practical models to ensure adoption of new solutions. Data analytics and AI lead automation methodologies are included. The book can be utilized by retailers and managers to improve business operations and make more accurate and realistic decisions. The AI based solution agnostic assessment and strategy will support the companies for better alignment and inventory control and capabilities to create a strategic road map for supply chain and logistics. The book is also useful for postgraduate students, researchers, and corporate executives. It addresses novel solutions for inventory to real world supply chain and logistics that retailers, practitioners, educators, and scholars will find useful. It provides the theoretical and applicable subject matters for the senior undergraduate and graduate students, researchers, practitioners, and professionals in the area of artificial intelligent computing and its applications in inventory and supply chain management, inventory control, and logistics.

Neutrosophic and Plithogenic Inventory Models for Applied Mathematics Smarandache, Florentin, Jdid, Maissam, Leyva-Vazquez, Maikel, 2025-05-29 As professionals navigate the evolving landscapes shaped by the advent of artificial intelligence, a critical void emerges in the optimization paradigms of applied mathematics. The dynamism of our interconnected world demands a collective research effort that transcends traditional boundaries. In response to this pressing need, *Neutrosophic and Plithogenic Inventory Models for Applied Mathematics* proposes a groundbreaking exploration within the frameworks of neutrosophic and plithogenic theories. This work not only seeks to address the profound impact of artificial intelligence on our lives but also aims to redefine the very foundations of optimization. Embark on a profound journey through

the unexplored territories of neutrosophic and plithogenic concepts Discover the transformative potential of neutrosophic set logic probability and statistics as well as plithogenic set logic probability and statistics Explore the synergy between artificial intelligence and responsive optimization and navigate the intricacies of plithogenic cognitive maps This work further explores the structural designs within neutrosophic optimization offering an invaluable resource for scholars seeking to incorporate these advanced concepts into static dynamic and probabilistic inventory models and their myriad applications **The**

**Three-Tiered World of Enterprise Computing** Pasquale De Marco,2025-03-10 In today s competitive business landscape organizations need agile scalable and secure applications to thrive Three tier architecture has emerged as the architectural paradigm of choice for building such applications offering numerous advantages over traditional monolithic designs This comprehensive guide takes you on a journey through the world of three tier architecture providing a thorough understanding of its concepts benefits and best practices With clear explanations and real world examples you ll learn how to design develop and deploy three tier applications that meet the demands of modern businesses Discover the key components of three tier architecture and how they work together to create a powerful and flexible application architecture Explore the benefits of three tier architecture including improved scalability performance security and maintainability Learn about the different technologies and tools used in three tier development and how to choose the right ones for your project Delve into the intricacies of designing and developing three tier applications from defining the application s requirements to implementing the presentation business logic and data access layers Gain insights into best practices for managing and maintaining three tier applications including performance tuning troubleshooting and security hardening Stay ahead of the curve with emerging trends in three tier architecture such as microservices cloud computing and artificial intelligence Learn how these technologies are transforming the way three tier applications are built and deployed and how you can leverage them to gain a competitive edge Whether you re a seasoned architect or a developer new to three tier architecture this book is your essential guide to building robust scalable and secure applications With its in depth coverage of fundamental concepts practical advice and cutting edge insights this book will empower you to unlock the full potential of three tier architecture and drive your business towards success If you like this book write a review **Handbook of Research on**

**Strategic Supply Chain Management in the Retail Industry** Kamath, Narasimha,Saurav, Swapnil,2016-02-09 Customer satisfaction is a pivotal component to any business that provides goods or services to the public By effectively managing the flow of products business can adapt to the growing demands of consumers and deliver successful customer service The Handbook of Research on Strategic Supply Chain Management in the Retail Industry is an authoritative reference source for the latest scholarly research on properly managing business processes in order to satisfy end user requirements and increase competitive advantage in the retail marketplace Highlighting concepts relating to field applications customer relationships and current trends in logistics management this book is ideally designed for business professionals managers upper level

students and researchers interested in innovative strategies and best practices in modern supply chains

**The Eighteenth International Conference on Management Science and Engineering Management** Jiuping Xu, Noor Azina Binti Ismail, Sophie Dabo-Niang, Mohamed Hag Ali Hassan, Asaf Hajiyeu, 2024-08-03 The proceedings of the Eighteenth ICMSEM cover a wide range of areas including hot management issues in Engineering Science It provides newest and frontier ideas and research achievements in the area of Management Science and Engineering Management to researchers and practitioners The work contains both theoretical and practical studies of Management Science in the Computing Methodology showing the advanced management concepts computing technologies for decision making problems with large uncertain and unstructured data Research in this proceeding will show the new changes and challenges in the decision making procedure as we have entered the big data era Theoretical studies of this proceedings will present the new technologies of analysis capture search sharing storage transfer visualization and privacy violations as well as advances in integration of optimization statistics and data mining This proceeding also contains practical studies in the real decision making scenarios when facing large uncertain or unstructured data The readers who are interested in related fields of can benefit from the proceedings for the new ideas and research direction

Supply Chain Sustainability and Raw Material Management: Concepts and Processes Farahani, Reza Zanjirani, Rezapour, Shabnam, Kardar, Laleh, 2011-12-31 Many organizations find supply chain management an essential prerequisite to building a sustainable competitive edge for their services or products While interest in SCM is enormous lack of theoretical frameworks and real world applications often characterizes research in the field and effective management of the supply chain remains elusive Supply Chain Sustainability and Raw Material Management Concepts and Processes is a comprehensive and up to date resource for operations researchers management scientists industrial engineers and other business practitioners and specialists looking for systemic and advanced discussions of supply chain management By presenting qualitative concepts quantitative models and case studies this book is a coherent guide to creating long term and sustainable performance for organizations who want to compete in the global market

**Dynamic Modelling for Supply Chain Management** Adolfo Crespo Márquez, 2010-01-29 Dynamic Modelling for Supply Chain Management discusses how to streamline complex supply chain management by making the most of the growing number of tools available The reader is introduced to the basic foundations from which to develop intelligent management strategies as the book characterises the process and framework of modern supply chain management The author reviews supply chain management concepts and singles out important factors in the management of modern complex production systems Particular attention is paid to modern simulation modelling tools that can be used to support supply chain planning and control The book explores the operational and financial impacts of various potential problems offering a compilation of practical models to help identify solutions A useful reference on supply chain management Dynamic Modelling for Supply Chain Management will benefit engineers and professionals working in a variety of areas from supply

chain management to product engineering      Advances in Production Management Systems. Production Management Systems for Responsible Manufacturing, Service, and Logistics Futures Erlend Alfnes, Anita Romsdal, Jan Ola Strandhagen, Gregor von Cieminski, David Romero, 2023-09-13 This 4 volume set IFIP AICT 689 692 constitutes the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2023 held in Trondheim Norway during September 17 21 2023 The 213 full papers presented in these volumes were carefully reviewed and selected from a total of 224 submissions They were organized in topical sections as follows Part I Lean Management in the Industry 4 0 Era Crossroads and Paradoxes in the Digital Lean Manufacturing World Digital Transformation Approaches in Production Management Managing Digitalization of Production Systems Workforce Evolutionary Pathways in Smart Manufacturing Systems Next Generation Human Centered Manufacturing and Logistics Systems for the Operator 5 0 and SME 5 0 Exploring Pathways to the Next Level of Intelligent Sustainable and Human Centered SMEs Part II Digitally Enabled and Sustainable Service and Operations Management in PSS Lifecycle Exploring Digital Servitization in Manufacturing Everything as a Service XaaS Business Models in the Manufacturing Industry Digital Twin Concepts in Production and Services Experiential Learning in Engineering Education Lean in Healthcare Additive Manufacturing in Operations and Supply Chain Management and Applications of Artificial Intelligence in Manufacturing Part III Towards Next Generation Production and SCM in Yard and Construction Industries Transforming Engineer to Order Projects Supply Chains and Ecosystems Modelling Supply Chain and Production Systems Advances in Dynamic Scheduling Technologies for Smart Manufacturing and Smart Production Planning and Control Part IV Circular Manufacturing and Industrial Eco Efficiency Smart Manufacturing to Support Circular Economy Product Information Management and Extended Producer Responsibility Product and Asset Life Cycle Management for Sustainable and Resilient Manufacturing Systems Sustainable Mass Customization in the Era of Industry 5 0 Food and Bio Manufacturing Battery Production Development and Management Operations and SCM in Energy Intensive Production for a Sustainable Future and Resilience Management in Supply Chains

*Supply Chain* Vedran Kordic, 2008-02-01 Traditionally supply chain management has meant factories assembly lines warehouses transportation vehicles and time sheets Modern supply chain management is a highly complex multidimensional problem set with virtually endless number of variables for optimization An Internet enabled supply chain may have just in time delivery precise inventory visibility and up to the minute distribution tracking capabilities Technology advances have enabled supply chains to become strategic weapons that can help avoid disasters lower costs and make money From internal enterprise processes to external business transactions with suppliers transporters channels and end users marks the wide range of challenges researchers have to handle The aim of this book is at revealing and illustrating this diversity in terms of scientific and theoretical fundamentals prevailing concepts as well as current practical applications      **Handbook of EOQ Inventory Problems** Tsan-Ming Choi, 2013-08-17 The Economic Order Quantity EOQ inventory model first appeared in 1913

and in its centennial it is still one of the most important inventory models. Despite the abundance of both classical and new research results, there was until now no comprehensive reference source that provides the state of the art findings on both theoretical and applied research on the EOQ and its related models. This edited handbook puts together all these interesting works and the respective insights into an edited volume. The handbook contains papers which explore both the deterministic and the stochastic EOQ model based problems and applications. It is organized into three parts. Part I presents three papers that provide an introduction and review of various EOQ related models. Part II includes four technical analyses on single echelon EOQ model based inventory problems. Part III consists of five papers on applications of the EOQ model for multi echelon supply chain inventory analysis.

**Studies in Quantitative Decision Making** Diptesh Ghosh, Avijit Khanra, S. V. Vanamalla, Faiz Hamid, Raghu Nandan Sengupta, 2022-03-10. This edited volume is an in depth collation of the usage of different quantitative decision making techniques in practical areas such as lean green supply chain, reverse logistics, perishable logistics, closed loop supply chain, sustainable project management, retail management, block chain applications, optimal supplier selection problem, demand supply modelling, forecasting under uncertainties, scheduling, sequencing, resource constraint logistics, dynamic network supply chain, risk evaluation and so on. Additionally, the book also solves these issues in theoretical and practical context using innovative mathematical tools. Consisting of selected papers from the 23rd Annual International Conference of the Society of Operations Management, this book's highlight is not only the coverage of interesting topics but also how these topics are dealt with such that post graduate students as well as researchers and industry personnel working in areas like engineering, economics, social sciences, management, mathematics etc. can derive the maximum benefit by reading or referring to this book. Apart from the emphasis on new mathematical operations research, operations management and statistical techniques, the authors also ensure that all the concepts are made clear by highlighting their practical significance in different areas of applications of operations management. By using novel presentation methods, the book offers a good practical flavor of all the different topics relevant to operations management in the coming decades.

**Modeling of Responsive Supply Chain** M.K. Tiwari, B. Mahanty, S. P. Sarmah, M. Jenamani, 2016-04-19. A guide to help readers meet the demands of an evolving competitive business environment. Modeling of Responsive Supply Chain outlines novel concepts and strategies for implementing a fully integrated system of business improvement methodologies. This self contained reference covers various key aspects of supply chain management which is crucial to boosting industrial growth in the face of expanding globalization in the manufacturing and transportation sectors. The book focuses on topics that could potentially improve the free flow of goods and services between nations by helping users assess the performance of logistic systems deployed to achieve this end. Chapters present a conventional and evolutionary approach to coordinating all elements of the supply chain to optimize an enterprise's competitive advantage. The authors explore different models associated with transportation, facility location and assignments as well as planning and

scheduling They also address diverse technologies such as RFID tags used to monitor product flow within the supply chain network This book addresses the importance of Recognizing responsiveness as a metric of supply chain performance Domain interfaces for solving the optimization problem by making supply chains more responsive Coordination through contracts to enhance responsiveness System dynamics methodology to achieve responsiveness as well as management principles control theory and computer simulation The use of different types of technologies to build a better supply chain that achieves higher responsiveness Few if any single volumes provide the detailed explanation of practical and conceptual approaches found in this book

**Supply Chain Management** Pengzhong Li,2011-04-26 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

**Contemporary Logistics in China 2025** Zhilun Jiao,Xiaofan Wu,Jianhua Xiao,Binglian Liu,Na Li,Yu Gong,2025-08-13 This annual report aims to present a timely portrait of the rapid growth of China s logistics market and the status quo of its logistics industry It provides an in depth analysis of critical issues involved in the ongoing dynamic and multi faceted development and serves as a valuable reference resource for interested readers in the academic and professional fields The book starts with an in depth overview of the achievements and prospects of China s logistics development in the ten years of the the Belt and Road Initiative and then covers macro factors related to logistics technologies and facilities region specific policies and plans industry wide transformation in transport manufacturing commerce and agriculture The book also addresses the current state and challenges of logistics digitization in China and trends from the aspects of continuous promotion upstream and downstream industry collaboration intelligent transportation infrastructure application of logistics big models and government support Furthermore the book offers insights into the development and future prospects of China s cross border e commerce logistics The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content

**Soft Computing: Theories and Applications** Rajesh Kumar,Ajit Kumar Verma,Om Prakash Verma,Tanu Wadehra,2024-07-23 This book focuses on soft computing and how it can be applied to solve real world problems arising in various domains ranging from medicine and healthcare to supply chain management image processing and cryptanalysis It gathers high quality papers presented at the International Conference on Soft Computing Theories and Applications SoCTA 2023 held at Indian Institute of Information Technology IIIT Una Himachal Pradesh India during 21 23 December 2023 The



book offers valuable insights into soft computing for teachers and researchers alike the book inspires further research in this dynamic field

*Supply Chain Coordination under Uncertainty* Tsan-Ming Choi,T.C. Edwin Cheng,2011-08-14 Channel coordination is a core subject of supply chain management Over the past decade much research effort has been devoted to exploring the detailed mechanisms for achieving supply chain coordination under uncertainty generating many fruitful analytical and empirical results Despite the abundance of research results there is an absence of a comprehensive reference source that provides state of the art findings on both theoretical and applied research on the subject In addition with the advance of knowledge and technologies many new topics on supply chain coordination under uncertainty have appeared in recent years This handbook extensively examines supply chain coordination challenges with a focal point on discovering innovative measures that can help tackle the existing and emerging challenges The book is organized into five parts which include chapters on innovative analytical models for coordination channel power and bargaining technological advancements and applications empirical analysis cases studies and review This handbook provides new empirical and analytical results with precious insights which will not only help supply chain agents to understand more about the latest measures for supply chain coordination under uncertainty but also help practitioners and researchers to know how to improve supply chain performance based on innovative methods

Toward Sustainable Operations of Supply Chain and Logistics Systems Voratas Kachitvichyanukul,Kanchana Sethanan,Paulina Golinska- Dawson,2015-07-06 This book addresses critical issues in today s logistics operations and supply chain management with a special focus on sustainability In dedicated chapters the authors address aspects concerning multimode logistics operations reverse network configuration forward and reverse supply chain integration improvement of the production operations and management of the recovery activities as well as carbon footprint reduction in transportation Selected best practices from different countries and industries are presented to aid in the implementation of sustainable policies in private enterprises and at public sector institutions The book offers a valuable resource for both academics and practitioners who wish to deepen their expertise in the field of logistics operations and management with regard to sustainability issues The book examines both qualitative and qualitative aspects of sustainable supply chain and logistics operations

Logistics and Supply Chain Management ,2001

Information Control Problems in Manufacturing 2006 Alexandre Dolgui,Gerard Morel,Carlos Eduardo Pereira,2011-10-10 Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2006 This symposium took place in Saint Etienne France on May 17 19 2006 INCOM is a tri annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control The purpose of the symposium INCOM 2006 was to offer a forum to present the state of the art in international research and development work with special emphasis on the applications of optimisation methods automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise The symposium

stressed the scientific challenges and issues covering the whole product and processes life cycle from the design through the manufacturing and maintenance to the distribution and service INCOM 2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation The Proceedings are composed of 3 volumes Volume 1 Information Systems Control Interoperability Volume 2 Industrial Engineering Volume 3 Operational Research 3 volume set containing 362 carefully reviewed and selected papers presenting the state of the art in international research and development in Information Control problems in Manufacturing

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