

International Journal Of Operations Management

A Perspective on Two Decades of Rapid Modeling It is an honor for me to be asked to write a foreword to the Proceedings of the 1st Rapid Modeling Conference. In 1987, when I coined the term “Rapid Modeling” to denote queuing modeling of manufacturing systems, I never imagined that two decades later there would be an international conference devoted to this topic! I am delighted to see that there will be around 40 presentations at the conference by leading researchers from around the world, and about half of these presentations are represented by written papers published in this book. I congratulate the conference organizers and program committee on the success of their efforts to hold the first ever conference on Rapid Modeling. Attendees at this conference might find it interesting to learn about the history of the term Rapid Modeling in the context it is used here. During the fall of 1986 I was invited to a meeting at the Headquarters of the Society of Manufacturing Engineers (SME) in Dearborn, Michigan. By that time I had successfully demonstrated several industry applications of queuing network models at leading manufacturers in the USA. Although in principle the use of queuing networks to model manufacturing systems was well known in the OR/MS community and many papers had been published, the actual use of such models by manufacturing professionals was almost nonexistent. Streamline your studying and get the grade you want with PRINCIPLES OF SUPPLY CHAIN MANAGEMENT: A BALANCED APPROACH, Second Edition. With this textbook, you'll learn from real case studies, as well as games--like The Beer Game Supply Chain Management Simulation--how to understand and apply supply chain management. The coverage in this text uses a broad brush to encompass OM, purchasing, and logistics with a supply chain management focus, covering a great deal of content that isn't currently available elsewhere. The book guides you through how all aspects of supply chain activity are accomplished effectively and efficiently. It brings you the real world of supply chain management. The authors break down supply chain issues into purchasing, operations, and logistics. This is one of the most--if not the most--balanced supply chain management texts available, and it follows a natural flow through the supply chain. The well-organized chapters include excellent case studies, demonstrating the practical application of supply chain management in the workplace. Profiles throughout the text reinforce the studies, and help to reinforce your learning. This second edition also includes a number of new cases, in addition to the previous 15 cases, all packaged on the Student CD. Each of the 14 chapters includes revised and updated Supply Chain Management in Action opening features, e-Business Connection features, Global Perspective features, and company examples to ensure that current supply chain management issues are covered in depth. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Optimization and evaluation are essential to the operations of several sectors such as the healthcare sector and the agriculture industry. Improvement of optimizations and evaluation are imperative for industry success and ensures that better services are provided to global consumers across sectors. *Interdisciplinary Perspectives on Operations Management and Service Evaluation* is a critical scholarly publication that focuses on operations management across several sectors and assessment strategies for the improvement of these industries. Featuring a range of topics such as fuzzy logic, ecosystem services, and metaheuristics, this book is ideal for managers, service evaluators, marketers, academicians, business professionals, researchers, practitioners, and students.

The *Handbook of Behavioral Operations Management* provides easy-to-access insights into why associated behavioral phenomena exist in specific production and service settings, illustrated through ready-to-play games and activities that allow instructors to demonstrate the phenomena in class settings along with applicable prescriptions for practice. By design the text serves a dual role as a desk/training reference to those practitioners already in the field and presents a comprehensive framework for viewing behavioral operations from a systems perspective. As an interdisciplinary book relating the dynamics of human behavior to operations management, this handbook is an essential resource for practitioners seeking to develop greater system understanding among their workers, as well as for instructors interested in emphasizing the practical relevance of behavior in operational settings.

This remarkable volume highlights the importance of Production and Operations Management (POM) as a field of study and research contributing to substantial business and social growth. The editors emphasize how POM works with a range of systems—agriculture, disaster management, e-commerce, healthcare, hospitality, military systems, not-for-profit, retail, sports, sustainability, telecommunications, and transport—and how it contributes to the growth of each. Martin K. Starr and Sushil K. Gupta gather an international team of experts to provide researchers and students with a panoramic vision of the field. Divided into eight parts, the book presents the history of POM, and establishes the foundation upon which POM has been built while also revisiting and revitalizing topics that have long been essential. It examines the significance of processes and projects to the fundamental growth of the POM field. Critical emerging themes and new research are examined with open minds and this is followed by opportunities to interface with other business functions. Finally, the next era is discussed in ways that combine practical skill with philosophy in its analysis of POM, including traditional and nontraditional applications, before concluding with the editors' thoughts on the future of the discipline. Students of POM will find this a comprehensive, definitive resource on the state of the discipline and its future directions. The *Second Edition of Managing Operations Across the Supply Chain* provides a global, supply chain perspective of operations management and in supply chain management courses that do not require an operations management

prerequisite. The Second Edition explains familiar operations management topics as viewed through a supply chain management perspective and reflects key shifts in operations management, including transitions that demand new tools, concepts and approaches to address the demands and challenges business face today and will in the future. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, and how they need it, so that your class time is more engaging and effective.

SCM is a rapidly emerging paradigm that is transforming the organisation of business operations as firms seek ever new and innovative ways of finding the elusive mantra of competitive advantage. Little work to date has been undertaken on the creative sector. This e-book hopes to address this, by offering some interesting and informative exploratory work in different areas of the sector. One aim was to offer some insights and lessons that could be drawn on by the wider business community.

When in 1996 I accepted to chair the International Conference of the Production and Operations Management Society (POMS) for the year 2000, I came up against the need to find an enticing theme for the conference. The end of the century was a good excuse, almost an invitation, to reflect on scientific disciplines.

How do policy makers and managers square the circle of increasing demand and expectations for the delivery and quality of services against a backdrop of reduced public funding from government and philanthropists? Leaders, executives and managers are increasingly focusing on service operations improvement. In terms of research, public services are immature within the discipline of operations management, and existing knowledge is limited to government departments and large bureaucratic institutions. Drawing on a range of theory and frameworks, this book develops the research agenda, and knowledge and understanding in public service operations management, addressing the most pressing dilemmas faced by leaders, executives and operations managers in the public services environment. It offers a new empirical analysis of the impact of contextual factors, including the migration of planning systems founded on MRP/ERP and the adoption of industrial based improvement practices such as TQM, lean thinking and Six Sigma. This will be of interest to researchers, educators and advanced students in public management, service operations management, health service management and public policy studies.

International Operations Management: Lessons in Global Business uses a fascinating selection of case studies researched during the 'International Operations Management Project', sponsored by the European Commission, to produce a valuable view of businesses in Western and Eastern traditions. Ranging from China Post and Flextronics International (Singapore) to Electrolux, Ford, and GlaxoSmithKline, the studies link conceptual and practical approaches in five areas: international operations management strategy, sourcing and manufacturing, new product development, logistics, and networked organisations. Throughout, the authors compare the Western and Eastern approaches to business, and introduce theory to clarify the comparison and the real consequences of internationalisation. With its balance of theoretical and applied content, this volume,

created from an exciting collaboration between universities and schools of management in Europe and China, serves as both a primary and supplementary source for higher level students and educators, and as a worthwhile read for interested practitioners. Purchasing and Supply Chain Management introduces students to purchasing as it relates to the supply chain and other functions and systems within an organization, such as marketing, logistics, and operations. Author W. C. Benton, Jr. draws from more than 30 years of practice, instruction, research, and consulting experience to teach students proactive collaboration, negotiation, and analytics. Through a step-by-step approach, readers will gain data-driven purchasing skills crucial for the next generation of professionals. The Fourth Edition is fully updated with new real-world cases, the latest research, and current coverage of key trends in the field. Included with this title: The password-protected Instructor Resource Site (formally known as SAGE Edge) offers access to all text-specific resources, including a test bank and editable, chapter-specific PowerPoint® slides. Learn more. "This book examines related research in decision, management, and other behavioral sciences in order to exchange and collaborate on information among business, industry, and government, providing innovative theories and practices in operations research"--Provided by publisher.

With this book, distinguished and notable contributors wish to honor Professor Charles S. Tapiero's scientific achievements. Although it covers only a few of the directions Professor Tapiero has taken in his work, it presents important modern developments in theory and in diverse applications, as studied by his colleagues and followers, further advancing the topics Tapiero has been investigating. The book is divided into three parts featuring original contributions covering the following areas: general modeling and analysis; applications to marketing, economy and finance; and applications to operations and manufacturing. Professor Tapiero is among the most active researchers in control theory; in the late sixties, he started to enthusiastically promote optimal control theory along with differential games, successfully applying it to diverse problems ranging from classical operations research models to finance, risk and insurance, marketing, transportation and operations management, conflict management and game theory, engineering, regional and urban sciences, environmental economics, and organizational behavior. Over the years, Professor Tapiero has produced over 300 papers and communications and 14 books, which have had a major impact on modern theoretical and applied research. Notable among his numerous pioneering scientific contributions are the use of graph theory in the behavioral sciences, the modeling of advertising as a random walk, the resolution of stochastic zero-sum differential games, the modeling of quality control as a stochastic competitive game, and the development of impulsive control methods in management. Charles Tapiero's creativity applies both in formulating original issues, modeling complex phenomena and solving complex mathematical problems.

This e-book contains extended and double-blind peer reviewed versions of six papers presented at the 16th International Annual EurOMA Conference, 2009. The papers included in this e-book illustrate both the growing scope of the empirical domain and give examples of knowledge that can be of high importance in manufacturing firms but sometimes better studied within the service sector. The e-book consists of six papers, two of which cover healthcare topics.

"Essentials of Operations Management" has been designed for those who want an inexpensive text that will provide only the essential information related to operations. Written by an author with many years of teaching experience at both the undergraduate and MBA level, "Essentials of Operations Management" takes a global approach and places emphasis on strategy and forecasting.

The purpose of this book is to provide an introduction to the theory and applications in the field of decision making, especially focused on Analytic Hierarchy Process, a structured technique for organizing and analyzing complex decisions, based on mathematics and psychology. It was developed by Prof. Thomas L. Saaty in the 1970s and has been extensively studied and refined since then. The idea of the book is to expand the reader's consciousness to deal with problems regarding the decision making. This book presents some application examples of Analytic Hierarchy. It contains original research and application chapters from different perspectives, and covers different areas such as supply chain, environmental engineering, safety, and social issues. This book is intended to be a useful resource for anyone who deals with decision making problems.

In times of declining economic growth, companies have to control their costs more than ever to save resources needed in the future. Regardless of the economic size of the company, the processes of production and logistics play a decisive role in stabilizing procedures and avoiding waste. Both are important cost drivers in manufacturing companies and therefore they offer large potential savings. Pervasive networking in the last years has contributed to a hitherto unknown transparency of global markets. This harmonization opened up new possibilities of entering foreign markets for procurement and sales to the companies. The emerging global procurement strategy was understood as a chance to rethink the relocation of existing production facilities to profit from existing differences in price and performance as a resource-saving factor. Many companies tended towards a reduction of their vertical integration by outsourcing sections of their value chain. These contracted services of production result in higher transport volumes, increased complexity of supply processes and new requirements on logistic networks. This trend of outsourcing has not stopped, but is slowing down noticeably.

Additionally, there is an increasing proportion of companies restoring business units that were outsourced before. Reasons for turning back decisions are often to be found in missed goals. It is not unusual that important cost factors were disregarded in the original basis of decision-making. In the meantime many companies have realized that it is easier to achieve stability of processes and therewith a control of costs by increasing their own contribution to production. Especially in times of under-utilized capacities like in the current crisis, insourcing can be a strategic option.

This e-book asks: Is Supply Chain Management an emerging academic discipline? Supply Chain Management (SCM) has continued to grow in prominence within the field of Operations Management and also within the broader discipline of management. Practitioners have begun to adopt and adapt new techniques to supply management that improve firm performance. Organizations in both the public and private sectors are becoming increasingly aware of the pivotal role that SCM can play in their business success. This is a challenging special issue aimed at stimulating debate rather than providing a definiti.

This Proceedings volume contains articles presented at the CIRP-Sponsored International Conference on Digital Enterprise Technology (DET2009) that takes place December 14–16, 2009 in Hong Kong. This is the 6th DET conference in the series and the first to be held in Asia. Professor Paul Maropoulos initiated, hosted and chaired the 1st International DET Conference held in 2002 at the University of Dham. Since this inaugural first DET conference, DET conference series has been successfully held in 2004 at Seattle, Washington USA, in 2006 at Setubal Portugal, in 2007 at Bath England, and in 2008 at Nantes France. The DET2009 conference continues to bring together International

expertise from the academic and industrial fields, pushing forward the boundaries of research knowledge and best practice in digital enterprise technology for design and manufacturing, and logistics and supply chain management. Over 120 papers from over 10 countries have been accepted for presentation at DET2009 and inclusion in this Proceedings volume after stringent refereeing process. On behalf of the organizing and program committees, the Editors are grateful to the many people who have made DET2009 possible: to the authors and presenters, especially the keynote speakers, to those who have diligently reviewed submissions, to members of International Scientific Committee, Organizing Committee and Advisory Committee, and to colleagues for their hard work in sorting out all the arrangements. We would also like to extend our gratitude to DET2009 sponsors, co-organizers, and supporting organizations.

This reference text introduces latest innovations on data analytics operation management in a single volume. It will serve as a useful text for graduate students and professionals in the field of industrial and production engineering, mechanical engineering, and materials science. Describes the key concepts of operations management, covering such topics as planning and control, the role of technology, and "just-in-time" techniques.

With the continuous growth of the service sector, the ability to develop and implement information systems is important in order to measure progress. Implementation and Integration of Information Systems in the Service Sector is a collection of research which discusses the application of information systems as well as the established ideas and advancements in the service sector. This book aims to utilize new theories, technologies, models, and methods in order to discover effective functions in this area.

This book offers effective and competitive food supply chains that are the consequence of technological innovation, collaboration, small agri-food business cases, entrepreneurial opportunities, cold chain technology management, disruptive technologies, and performance assessment through empirical analysis, case studies, and multimethod research in the food industry. The book comprehensively covers different interfaces of the food supply chain including procurement, processing, distribution, consumer, i.e., farm to fork. It provides solutions to various challenges such as globalization, food recalls, technological innovations, and consumer trust. This book will be of interest to researchers in the areas of the food supply chain, operations management, industrial engineering as well as professionals in the agri-food and allied industry.

Imagine planning an event like the Olympics. Now imagine planning the same event but not knowing when or where it will take place, or how many will attend. This is what humanitarian logisticians are up against. Oversights result in serious consequences for the victims of disasters. So they have to get it right, fast.

Rapid Modelling and Quick Response presents new research developments in the fields of rapid modelling and quick response linked with performance improvements (based on lead time reduction, etc., as well as financial performance measures). The papers and teaching cases in this book were presented at the second Rapid Modelling Conference: "Quick Response – Intersection of Theory and Practice". The main focus of this collection is the transfer of knowledge from theory to practice, providing the theoretical foundations for successful performance improvement. This conference volume challenges the traditional notions of rapid modelling, and offers valuable contributions to the scientific communities of operations management, production management, supply chain management, industrial engineering and operations research. Rapid Modelling and Quick Response will give the interested reader (researcher, as well as practitioner) a good overview of new developments in this field.

The Journal of Global Business and Management Research (GBMR) is a quarterly peer-reviewed journal which strives to comply with highest

research standards and scientific/research/practice journals' qualities. Being international and inter-disciplinary in scope, GBMR seeks to provide a platform for debate among diverse academic and practitioner communities who address a broad area of business and management issues across the globe. It is currently indexed in a number of prestigious databases including Gale, Cabells, Ebsco, and Google Scholars.

Essentials of Operations Management SAGE

Strategic Operations Management, 4th Edition, shows how vital it is to have world-class operations management in any organisation. In the past, where organisations tended to be more hierarchical than today, the words, "strategy" and "operations" were almost mutually exclusive. In today's highly competitive environment, though, strategic operations capabilities must be in place for organisations to provide goods and services that meet and exceed customer requirements. Key issues such as cost, speed, quality, flexibility and constant innovation are all part of strategic operations. However, achieving such capabilities does not come by chance - instead a range of factors need to be put in place. This new edition pays equal attention to manufacturing and service sectors. It includes numerous references to, and discusses, major changes taking place in the business world, including 3-D printing; virtual organisations; Cloud – Big Data and the Internet of Things; Servitization, global markets, ongoing innovation and managing within complex supply networks. Cases are included from a range of settings across the globe. Students taking MBA, MSc and MBM classes on operations management, advanced operations management, and strategic operations management will find this textbook fulfills all their requirements whilst advanced undergraduate classes in these areas will also find the book an essential read.

Operations Management: Managing Global Supply Chains takes a holistic, integrated approach to managing operations and supply chains by exploring the strategic, tactical, and operational decisions and challenges facing organizations worldwide. Authors Ray R. Venkataraman and Jeffrey K. Pinto address sustainability in each chapter, showing that sustainable operations and supply chain practices are not only attainable, but are critical and often profitable practices for organizations to undertake. With a focus on critical thinking and problem solving, Operations Management provides students with a comprehensive introduction to the field and equips them with the tools necessary to thrive in today's evolving global business environment. A Complete Teaching & Learning Package SAGE coursepacks FREE! Easily import our quality instructor and student resource content into your school's learning management system (LMS) and save time. Learn more. SAGE edge FREE online resources for students that make learning easier. See how your students benefit.

"This book presents useful strategies, techniques, and tools for the successful design, development, and implementation of enterprise information systems"--Provided by publisher.

An Introduction to Operations Management: The Joy of Operations covers the core topics of operations management, including product and service design, processes, capacity planning, forecasting, inventory, quality, supply chain management, and project management. Das provides a clear, connected, and current view of operations management and how it relates to a firm's strategic goals. Students will benefit from the real-world scenarios that foster an

understanding of operations management tasks. Without relying heavily on statistics and mathematical derivations, the book offers applied models and a simple, predictable chapter format to make it easy to navigate. Students of introductory operations management courses will love this practical textbook. A companion website features an instructor's manual with test questions, as well as additional exercises and examples for in-class use.

Circular-Economy is a new concept in operations management. Its goal is to redefine growth, focusing on positive benefits arising for society as a whole out of efficiencies such as designing waste out of the operations process. This book will help practitioners use the proper strategy for effective adoption of Circular practices to use in their organization.

Features: Provides a complete understanding of Circular-Economy practices Offers advanced mathematical models to help industry management adopt the correct practices Presents a deep understanding of cross-functional and customer-focused design thinking Covers how to develop sustainable practices in all types of activities within operations management. Circular Economy for the Management of Operations will be of interest to practitioners and researchers in engineering as well as business management

Operations Management is all around us and is integral to every industry. Using contemporary and engaging examples this brand new text book brings to life fundamental Operations Management principles and theories that are applicable to both manufacturing and service situations, reflecting the very latest developments in this dynamic field.

This book covers important issues related to managing supply chain risks from various perspectives. Supply chains today are vulnerable to disruptions with a significant impact on firms' business and performance. The aim of supply chain risk management is to identify the potential sources of risks and implement appropriate actions in order to mitigate supply chain disruptions. This book presents a set of models, frameworks, strategies, and analyses that are essential for managing supply chain risks. As a comprehensive collection of the latest research and most recent cutting-edge developments on supply chain risk and its management, the book is structured into three main parts: 1) Supply Chain Risk Management; 2) Supply Chain Vulnerability and Disruptions Management; and 3) Toward a Resilient Supply Chain. Leading academic researchers as well as practitioners have contributed chapters, combining theoretical findings and research results with a practical and contemporary view on how companies can manage the supply chain risks and disruptions, as well as how to create a resilient supply chain. This book can serve as an essential source for students and scholars who are interested in pursuing research or teaching courses in the rapidly growing area of supply chain risk management. It can also provide an interesting and informative read for managers and practitioners who need to deepen their knowledge of effective supply chain risk management.

Behavioral Operations Management has been identified in the last years as one of the most promising emerging fields in

Operations Management. Behavioral Issues in Operations Management explains and examines up-to-date research in this field, which works to analyze the impact of human behavior on the management of complex operating systems. A collection of studies from leading scholars presents different methodologies and approaches, supported by real data and case studies. Issues such as building trust and strong cooperative relationships with suppliers, enhancing motivation and designing proper incentives for stimulating more effective decision maker behaviours are considered. The main decision-making processes affected by behavioral issues are also analyzed with a focus on new product development, logistics, and supply chain integration. The broad coverage of methodologies and practical implications makes Behavioral Issues in Operations Management an ideal reference for both researchers developing new topics such as NK fitness landscapes and managers with an interest in behavioral management operations.

[Copyright: e9b3f8804684a3ddc39a0a3a81b09150](https://doi.org/10.1007/978-1-4939-9815-0)