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KEY=PRODUCTION - ATKINSON CHRISTINE

FUNDAMENTALS OF PRODUCTION LOGISTICS

THEORY, TOOLS AND APPLICATIONS

Springer Science & Business Media At last, here is what logistics researchers have been waiting for: a book that comprehensively encapsulates for the first time the fundamentals of modeling Logistic Operating Curves for production and storage processes. The text includes information on how they can be derived and calculated based on standard operating data. In doing so, the authors clearly demonstrate the mutual dependencies between the often contradictory logistic objectives, i.e. on the one hand low throughput times and high delivery reliability and on the other hand low WIP levels and high rates of utilization. Moreover, they also explain how these objectives can be improved using the Logistic Operating Curve Theory and why this method thus provides an interesting alternative to simulations.

FUNDAMENTALS OF PRODUCTION LOGISTICS

THEORY, TOOLS AND APPLICATIONS : WITH 178 FIGURES AND 6 TABLES

THEORY, METHODOLOGY, TOOLS AND APPLICATIONS FOR MODELING

AND SIMULATION OF COMPLEX SYSTEMS

16TH ASIA SIMULATION CONFERENCE AND SCS AUTUMN SIMULATION MULTI-CONFERENCE, ASIASIM/SCS AUTUMNSIM 2016, BEIJING, CHINA, OCTOBER 8-11, 2016, PROCEEDINGS, PART II

Springer This four-volume set (CCIS 643, 644, 645, 646) constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi-Conference, AsiaSim / SCS AutumnSim 2016, held in Beijing, China, in October 2016. The 265 revised full papers presented were carefully reviewed and selected from 651 submissions. The papers in this second volume of the set are organized in topical sections on HMI and robot simulations; modeling and simulation for intelligent manufacturing; military simulation; visualization and virtual reality.

SUPPLY CHAIN AND LOGISTICS MANAGEMENT: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research.

ADVANCES IN PRODUCTION, LOGISTICS AND TRAFFIC

PROCEEDINGS OF THE 4TH INTERDISCIPLINARY CONFERENCE ON PRODUCTION LOGISTICS AND TRAFFIC 2019

Springer The series of Interdisciplinary Conferences on Production, Logistics and Traffic (ICPLT) address the research community as well as practitioners in these fields with special attention to links and interfaces between the three disciplines. The fourth ICPLT in particular deals with technology from intralogistics to automated trucking driving as well as the societal aspects of commercial transport. To contribute to a high-level and

beneficial exchange between authorities in politics and municipalities with researchers and practitioners in production and logistics management the ICPLT has asked for contributions from the three disciplines to better understand innovative technologies, best practises and latest results. These contributions have been evaluated and selected based on a double-blind review process to become part of this book. It comprises 21 contributions examining trends and challenges for commercial transport as the essential link for production, logistics and society. Therefore, innovative technologies and strategies are presented and discussed to better understand the interdependencies, conflicts of interest and to develop feasible solutions. Topics · Simulation & Optimization in Production and Logistics · Freight Transport Demand Modelling · Intralogistics & Logistics Facilities · Policy & Human Factors · Production & Maintenance · Supply Chain Management · Sustainable Logistics & Energy Target Groups · Representatives of public authorities, municipalities & politics · Actors of sectoral, transport & spatial planning · Actors of production & logistics · Researchers in the disciplines production, logistics, transport & spatial planning

DYNAMICS IN LOGISTICS

THIRD INTERNATIONAL CONFERENCE, LDIC 2012 BREMEN, GERMANY, FEBRUARY/MARCH 2012 PROCEEDINGS

Springer Science & Business Media The volume comprises the proceedings of the third International Conference on Dynamics in Logistics LDIC 2012. The scope of the conference targeted the identification, analysis, and description of the dynamics of logistic processes and networks. The spectrum ranged from the modeling and planning of processes and innovative methods like autonomous control and knowledge management to the new technologies provided by radio frequency identification, mobile communication, and networking. The growing dynamics in the area of logistics poses completely new challenges: Logistic processes and networks must rapidly and flexibly adapt to continuously changing conditions. LDIC 2012 provided a venue for researchers from academia and industry interested in the technical advances in dynamics in logistics. The conference addressed research in logistics from a wide range of fields, e.g. engineering, computer science and operations research. The volume consists of two invited papers and of 49 contributed papers divided into various subjects including transport logistics, routing in dynamic logistic networks, modeling, simulation, optimization and collaboration in logistics, identification technologies, mathematical modeling in transport and production logistics, information, communication, risk and failure in logistic systems, autonomous control in logistic processes, global supply chains and industrial applications, and the Internet of Things in the context of logistics.

TOTAL COST ANALYSIS IN LOGISTICS

PRACTICAL EXECUTION, LEARNING, AND TEACHING IN HIGHER EDUCATION

Linköping University Electronic Press Cost is considered a crucial factor in much decision-making in private and public organisations. Therefore, the ability to calculate total estimated costs for different alternatives is important. However, such total cost analysis is a challenging task. Providing students with the knowledge and skills needed for total cost analysis is therefore relevant in several disciplines within higher education. Within logistics management, total cost analysis is for decades by several scholars regarded as a 'cornerstone', a fundamental part of the discipline. However, except for describing the basic steps and presumptions, the literature does not give much support concerning how to conduct such analyses, or which the difficulties associated with total cost analysis are. This blank space in literature is not limited to the logistics discipline, it stretches throughout many disciplines. Neither does literature cover how to teach to support students' learning of total cost analysis. Hence, to address the lack of research, the purpose of this thesis was formulated as follows: To contribute to the understanding of conducting, learning, and teaching total cost analysis. Three research questions were shaped to address each part of the purpose: conducting, learning and teaching. RQ1 What challenges are connected to the process of conducting total cost analysis? RQ2 What thresholds are there for learning how to conduct total cost analysis? RQ3 How can total cost learning be supported by suitable educational methods? The research questions are connected to each other in the sense that the challenges of conducting total cost analysis (RQ1) indicate within which areas total cost learning is difficult, and thereby where thresholds are to be investigated (RQ2). Further, knowledge about the learning thresholds is needed to discuss suitable educational activities (RQ3). The research was conducted by a combination of literature reviews and multiple case studies at four Higher Education Institutions, where both teachers and students were approached. The findings for RQ1 were developed in an abductive procedure walking back and forth between literature and cases. A twelve-step process for total cost analysis was defined, and specific challenges associated for each of these steps. Regarding learning thresholds (RQ2), perceived difficulties with learning total cost analysis were identified in the case studies. These difficulties were then analysed against threshold characteristics available in literature. This resulted in the identification of four total cost learning thresholds. Literature on constructivist-based teaching was used to suggest teaching methods to support learning (RQ3). These types of activities proved to match the ones most appreciated by teachers and students in the studied cases. The twelve-step process provides a more structured and holistic view of total cost analysis than

previously available in the logistics literature. The description of challenges with conducting total cost analysis is novel, not only within logistics, but also generally, why this is a major contribution from this research. Aspects regarding teaching and learning connected to logistics, and to total cost analysis, are very sparsely addressed in literature, which makes the findings concerning learning thresholds and teaching methods valuable. The findings are believed to be useful for different stakeholders. First and foremost, teachers can use the findings for designing programs, courses, and course modules which cover the important aspects of total cost analysis with help from educational activities supporting the students' learning. Second, for organisations where total cost analyses are conducted, the suggested process with its steps and associated challenges can be used to achieve better total cost analyses, and in turn more substantiated decisions. In the longer perspective, better education on total cost analysis at Higher Education Institutions will further strengthen the total cost competence in organisations, thereby improving the total cost-related decision making. Total cost analysis is not unique for the logistics discipline. Although focus in the study has been on Higher Education Institutions providing logistics courses, the findings are to a high extent believed to be relevant also for other disciplines dealing with total cost analysis.

ENABLING MANUFACTURING COMPETITIVENESS AND ECONOMIC SUSTAINABILITY

PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON CHANGEABLE, AGILE, RECONFIGURABLE AND VIRTUAL PRODUCTION (CARV2011), MONTREAL, CANADA, 2-5 OCTOBER 2011

Springer Science & Business Media The changing manufacturing environment requires more responsive and adaptable manufacturing systems. The theme of the 4th International Conference on Changeable, Agile, Reconfigurable and Virtual production (CARV2011) is "Enabling Manufacturing Competitiveness and Economic Sustainability". Leading edge research and best implementation practices and experiences, which address these important issues and challenges, are presented. The proceedings include advances in manufacturing systems design, planning, evaluation, control and evolving paradigms such as mass customization, personalization, changeability, re-configurability and flexibility. New and important concepts such as the dynamic product families and platforms, co-evolution of products and systems, and methods for enhancing manufacturing systems' economic sustainability and prolonging their life to produce more than one product generation are treated. Enablers of change in manufacturing systems, production volume and capability scalability and managing the volatility of markets, competition among global enterprises and the increasing complexity of products,

manufacturing systems and management strategies are discussed. Industry challenges and future directions for research and development needed to help both practitioners and academicians are presented.

ROBUST MANUFACTURING CONTROL

PROCEEDINGS OF THE CIRP SPONSORED CONFERENCE ROMAC 2012, BREMEN, GERMANY, 18TH-20TH JUNE 2012

Springer Science & Business Media This contributed volume collects research papers, presented at the CIRP Sponsored Conference Robust Manufacturing Control: Innovative and Interdisciplinary Approaches for Global Networks (RoMaC 2012, Jacobs University, Bremen, Germany, June 18th-20th 2012). These research papers present the latest developments and new ideas focusing on robust manufacturing control for global networks. Today, Global Production Networks (i.e. the nexus of interconnected material and information flows through which products and services are manufactured, assembled and distributed) are confronted with and expected to adapt to: sudden and unpredictable large-scale changes of important parameters which are occurring more and more frequently, event propagation in networks with high degree of interconnectivity which leads to unforeseen fluctuations, and non-equilibrium states which increasingly characterize daily business. These multi-scale changes deeply influence logistic target achievement and call for robust planning and control strategies. Therefore, understanding the cause and effects of multi-scale changes in production networks is of major interest. New methodological approaches from different science disciplines are promising to contribute to a new level comprehension of network processes. Unconventional methods from biology, perturbation ecology or auditory display are gaining increasing importance as they are confronted with similar challenges. Advancements from the classical disciplines such as mathematics, physics and engineering are also becoming of continuing importance.

A DYNAMIC BOTTLENECK-ORIENTED MANUFACTURING CONTROL SYSTEM

GITO mbH Verlag

HANDBOOK FACTORY PLANNING AND DESIGN

Springer This handbook introduces a methodical approach and pragmatic concept for the planning and design of changeable factories that act in strategic alliances to supply the ever-changing needs of the global market. In the first part, the change drivers of manufacturing enterprises and the resulting new challenges are considered in detail with focus on an appropriate change potential. The second part concerns the design of the production facilities and systems on the factory levels work place, section,

building and site under functional, organisational, architectural and strategic aspects keeping in mind the environmental, health and safety aspects including corporate social responsibility. The third part is dedicated to the planning and design method that is based on a synergetic interaction of process and space. The accompanying project management of the planning and construction phase and the facility management for the effective utilization of the built premises close the book. The Authors Prof. em. Dr.-Ing. Dr. mult. h.c. Hans-Peter Wiendahl has been director for 23 years of the Institute of Factory planning and Logistics at the Leibniz University of Hannover in Germany. Prof. Dipl.-Ing. Architekt BDA Jürgen Reichardt is Professor at the Muenster school of architecture and partner of RMA Reichardt - Maas - Associate Architects in Essen Germany. Prof. Dr.-Ing. habil. Peter Nyhuis is Managing Director of the Institute of Factory Planning and Logistics at the Leibniz University of Hannover in Germany.

ADVANCES IN THE ERGONOMICS IN MANUFACTURING: MANAGING THE ENTERPRISE OF THE FUTURE

AHFE International (USA) Contemporary manufacturing enterprises aim to deliver a great number of consumer products and systems through friendly and satisfying working environments for people who are involved in manufacturing services. Meeting the needs of the manufacturing and service sectors of contemporary industry, this volume is concerned with the human factors, ergonomics, and safety issues related to the design of products, processes, and systems, as well as the operation and management of business enterprises. This book will be of special value to researchers and practitioners involved in the design of products, processes, systems, and services, which are marketed and utilized by a variety of organizations around the world.

TEROTECHNOLOGY XI

Materials Research Forum LLC The book focuses on the technology of installation, maintenance, replacement and removal of manufacturing machinery and transportation equipment. Areas covered include industrial management, reliability, technical diagnostics, materials science, design of experiments, tribology and technical safety. Keywords: Terotechnology, Manufacturing Machinery, Transportation Equipment, Spool Control Valves, CFD Simulation, Turbine Nozzle Outlet, Foundry Simulation Codes, Risk Assessment, Flow Control Valves, Hydraulic Drive and Control Systems, Bearing Housing, Defects in Metal Matrix Composites, Controlling Cast Iron Foundry, Camouflage Colors, Erosion Blasting, Fuzzy Logic in Databases, Urban Traffic Noise, Machining of Metal Matrix Composites, Laser Cutting Methods, UV Laser Micro Machining, Simulation of Flow Control, Bearing Housing, Plasma Cutting, Electrical Discharge Machining, Decarburization of Rails, Bogie Frame Strength, Multi Sensor Detection System, DLC Coatings, Horizontal Meshed Heaters, Underground Composite Pressure

Pipes, Diagnostic Process of Castings, Toxic Gases Emission, Floor Materials in Rolling Stock, Railway Rubber Products, Electric Cables and Wires, Anti-Graffiti Coatings, Defects in Rails, Screw Coupling 1MN, Laser Welding of Girth Joint, Combustion Chamber of a Piston.

TOOLS OF TRANSPORT TELEMATICS

15TH INTERNATIONAL CONFERENCE ON TRANSPORT SYSTEMS TELEMATICS, TST 2015, WROCŁAW, POLAND, APRIL 15-17, 2015. SELECTED PAPERS

Springer This book constitutes the proceedings of the 15th International Conference on Transport Systems Telematics, TST 2015, held in Wrocław, Poland, in April 2015. The 35 revised full papers and two short papers included in this volume were carefully reviewed and selected from 115 submissions. The papers provide an overview of solutions being developed in the fields of transport telematics and intelligent transport systems.

MATERIALS SCIENCE AND ENGINEERING: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

APPLICATION DEVELOPMENT AND DESIGN: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life. These applications can be utilized across different technological platforms. Application Development and Design: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology

applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as software design, mobile applications, and web applications, this multi-volume book is ideally designed for researchers, academics, engineers, professionals, students, and practitioners interested in emerging technology applications.

BIG DATA ANALYTICS IN SUPPLY CHAIN MANAGEMENT

THEORY AND APPLICATIONS

CRC Press In a world of soaring digitization, social media, financial transactions, and production and logistics processes constantly produce massive data. Employing analytical tools to extract insights and foresights from data improves the quality, speed, and reliability of solutions to highly intertwined issues faced in supply chain operations. From procurement in Industry 4.0 to sustainable consumption behavior to curriculum development for data scientists, this book offers a wide array of techniques and theories of Big Data Analytics applied to Supply Chain Management. It offers a comprehensive overview and forms a new synthesis by bringing together seemingly divergent fields of research. Intended for Engineering and Business students, scholars, and professionals, this book is a collection of state-of-the-art research and best practices to spur discussion about and extend the cumulant knowledge of emerging supply chain problems.

THE ESSENTIALS OF SUPPLY CHAIN MANAGEMENT

NEW BUSINESS CONCEPTS AND APPLICATIONS

FT Press This is today's indispensable introduction to supply chain management for today's students and tomorrow's managers - not yesterday's! Prof. Hokey Min focuses on modern business strategies and applications - transcending obsolete logistics- and purchasing-driven approaches still found in many competitive books. Focusing on outcomes throughout, *The Essentials of Supply Chain Management* shows how to achieve continuous organizational success by applying modern supply chain concepts. Reflecting his extensive recent experience working with leading executives and managers, Min teaches highly-effective methods for supply chain thinking and problem-solving. You'll master an integrated Total System Approach that places functions like inventory control and transportation squarely in context, helping you smoothly integrate internal and external functions, and establish effective inter-firm cooperation and strategic alliances across complex supply chains. Coverage includes: Understanding modern sourcing, logistics, operations, sales, and marketing - and how they fit together Using modern supply chain methods to improve customer satisfaction and quality Working with cutting-edge supply chain technology and metrics Moving towards greater sustainability

and more effective risk management Working with core analytical tools to evaluate supply chain practices and measure performance Legal, ethical, cultural, and environmental/sustainability aspects of modern supply chain operations How to build a career in global supply chain management The Essentials of Supply Chain Management will be an indispensable resource for all graduate and undergraduate students in supply chain management, and for every practitioner pursuing professional certification or executive education in the field.

NETWORK SCIENCE, NONLINEAR SCIENCE AND INFRASTRUCTURE SYSTEMS

Springer Science & Business Media This book is written by leading scholars in Network Science, Nonlinear Science and Infrastructure Systems, expressly to develop common theoretical underpinnings for better solutions to modern infrastructural problems. The book is dedicated to the formulation of infrastructural tools that will better solve problems from transportation networks to telecommunications, Internet, supply chains and more.

INTELLIGENT COMPUTING THEORIES AND APPLICATION

17TH INTERNATIONAL CONFERENCE, ICIC 2021, SHENZHEN, CHINA, AUGUST 12-15, 2021, PROCEEDINGS, PART I

Springer Nature This two-volume set of LNCS 12836 and LNCS 12837 constitutes - in conjunction with the volume LNAI 12838 - the refereed proceedings of the 17th International Conference on Intelligent Computing, ICIC 2021, held in Shenzhen, China in August 2021. The 192 full papers of the three proceedings volumes were carefully reviewed and selected from 458 submissions. The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. The theme for this conference is "Advanced Intelligent Computing Methodologies and Applications." The papers are organized in the following subsections: Evolutionary Computation and Learning, Image and signal Processing, Information Security, Neural Networks, Pattern Recognition Swarm Intelligence and Optimization, and Virtual Reality and Human-Computer Interaction.

COMPUTER APPLICATIONS IN PRODUCTION AND ENGINEERING

IFIP TC5 INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN PRODUCTION AND ENGINEERING (CAPE '97) 5-7 NOVEMBER 1997, DETROIT, MICHIGAN, USA

Springer Science & Business Media In the latter half of the 20th century, forces have conspired to make the human community, at last, global. The

easing of tensions between major nations, the expansion of trade to worldwide markets, widespread travel and cultural exchange, pervasive high-speed communications and automation, the explosion of knowledge, the streamlining of business, and the adoption of flexible methods have changed the face of manufacturing itself, and of research and education in manufacturing. The acceptance of the continuous improvement process as a means for organizations to respond quickly and effectively to swings in the global market has led to the demand for individuals educated in a broad range of cultural, organizational, and technical fields and capable of absorbing and adapting required knowledge and training throughout their careers. No longer will manufacturing research and education focus on an industrial sector or follow a national trend, but rather will aim at enabling international teams of companies to cooperate in rapidly designing, prototyping, and manufacturing products. The successful enterprise of the 21st century will be characterized by an organizational structure that efficiently responds to customer demands and changing global circumstances, a corporate culture that empowers employees at all levels and encourages constant communication among related groups, and a technological infrastructure that fully supports process improvement and integration. In changing itself to keep abreast of the broader transformation in manufacturing, the enterprise must look first at its organization and culture, and thereafter at supporting technologies.

U.S. GOVERNMENT RESEARCH REPORTS

DESIGNING INNOVATIONS IN INDUSTRIAL LOGISTICS MODELLING

CRC Press *Designing Innovations in Industrial Logistics Modelling* describes practical methods for approaching the task of designing industrial logistics systems. It surveys the development of logistics models and their application in manufacturing to designing, planning, and implementing the movement of supplies, equipment, and products. This text/reference book discusses the combination of operation and production research to obtain solutions for designing and integrating advanced logistics systems. It provides the reader with a set of prescriptive and descriptive models and methods that have been developed exclusively for the purpose of designing, managing, and optimizing the architecture of such advanced systems. The design and application of new tools and methods is presented in such a way that emphasizes the competitiveness of manufacturing industries, and case studies are presented in a manner that demonstrates successful models and methods in advanced industrial logistics systems. In addition, *Designing Innovations in Industrial Logistics Modelling* explains the various formal tools and methodologies employed in evaluating new programs and covers program management and dynamic evaluation techniques.

SUSTAINABLE SUPPLY CHAINS: STRATEGIES, ISSUES, AND MODELS

Springer Nature This book discusses supply chain issues and models with examples from actual case studies. Recent advances in sustainability, supply chains and technologies have brought promising potential for the management of sustainable global and local supply chains. While most of the current literature seem to consider developments in the field of sustainable supply chains and in the field of Industry 4.0 as two distinct entities, this book attempts to explore the synergy in bringing these two distinct fields together. The book features chapters on management of sustainability and industry 4.0 on supply chains as a whole, with several case studies on issues related to the application of sustainable supply chains in specific application sectors. They employ mathematical modeling and statistical analyses, as well as descriptive qualitative studies. They cover a range of application areas including multiple sectors (restaurant, manufacturing, logistics, furniture, food and insurance), domains (supply chains, logistics, marketing, and reverse logistics) and multiple country contexts (UK and India). The potential links between sustainability and the recent technological innovations from Industry 4.0 have been explored in detail. The book offers a valuable tool for managerial decision-making on the current practice and future potential on the use of Industry 4.0 tools for sustainable supply chains to facilitate competitive advantage with case studies in various industry sectors. In addition, some intriguing mathematical models will appeal to students and researchers interested in modeling the logistics process and the application of evolutionary game theory for integrating the social and economic aspects of sustainable supply chains. Some of these supply chain issues have been addressed in a previous book by the Editors.

MANAGEMENT

MANAGEMENT, A CONTINUING LITERATURE SURVEY WITH INDEXES

INDUSTRIAL ENGINEERING AND MANUFACTURING TECHNOLOGY

PROCEEDINGS OF THE 2014 INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND MANUFACTURING TECHNOLOGY (ICIEMT 2014), JULY 10-11, 2014, SHANGHAI, CHINA

CRC Press The 2014 International Conference on Industrial Engineering and Manufacturing Technology (ICIEMT 2014) was held July 10-11, 2014 in Shanghai, China. The objective of ICIEMT 2014 was to provide a platform for researchers, engineers, academics as well as industry professionals from all over the world to present their research results and development

LOGISTICS 4.0

DIGITAL TRANSFORMATION OF SUPPLY CHAIN MANAGEMENT

CRC Press Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

THE LOGIC OF LOGISTICS

THEORY, ALGORITHMS, AND APPLICATIONS FOR LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Springer Science & Business Media Fierce competition in today's global market provides a powerful motivation for developing ever more sophisticated logistics systems. This book, written for the logistics manager and researcher, presents a survey of the modern theory and application of logistics. The goal of the book is to present the state-of-the-art in the science of logistics management. As a result, the authors have written a timely and authoritative survey of this field that many practitioners and researchers will find makes an invaluable companion to their work.

LEAN BUSINESS SYSTEMS AND BEYOND

FIRST IFIP TC 5 ADVANCED PRODUCTION MANAGEMENT SYSTEMS CONFERENCE (APMS'2006), WROCLAW, POLAND, SEPTEMBER 18-20, 2006

Springer Science & Business Media Lean Manufacturing has proved to be one of the most successful and most powerful production business systems over the last decades. Its application enabled many companies to make a big leap towards better utilization of resources and thus provide better service to the customers through faster response, higher quality and lowered costs. Lean is often described as “eyes for flow and eyes for muda” philosophy. It simply means that value is created only when all the resources flow through the system. If the flow is stopped no value but only costs and time are added, which is muda (Jap. waste). Since the philosophy was born at the Toyota many solutions were tailored for the high volume environment. But in turbulent, fast-changing market environment and progressing globalization, customers tend to require more customization, lower volumes and higher variety at much less cost and of better quality. This calls for adaptation of existing lean techniques and exploration of the new waste-free solutions that go far beyond manufacturing. This book brings together the opinions of a number of leading academics and researchers from around the world responding to those emerging needs. They tried to find answer to the question how to move forward from “Spaghetti World” of supply, production, distribution, sales, administration, product development, logistics, accounting, etc. Through individual chapters in this book authors present their views, approaches, concepts and developed tools. The reader will learn the key issues currently being addressed in production management research and practice throughout the world.

THE GOAL

A PROCESS OF ONGOING IMPROVEMENT

Routledge Alex Rogo is a harried plant manager working ever more desperately to try and improve performance. His factory is rapidly heading for disaster. So is his marriage. He has ninety days to save his plant - or it will be closed by corporate HQ, with hundreds of job losses. It takes a chance meeting with a colleague from student days - Jonah - to help him break out of conventional ways of thinking to see what needs to be done. Described by Fortune as a 'guru to industry' and by Businessweek as a 'genius', Eliyahu M. Goldratt was an internationally recognized leader in the development of new business management concepts and systems. This 20th anniversary edition includes a series of detailed case study interviews by David Whitford, Editor at Large, Fortune Small Business, which explore how organizations around the world have been transformed by Eli

Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the ideas which underline the Theory of Constraints (TOC) developed by Eli Goldratt. Written in a fast-paced thriller style, *The Goal* is the gripping novel which is transforming management thinking throughout the Western world. It is a book to recommend to your friends in industry - even to your bosses - but not to your competitors!

MANUFACTURING AT WARP SPEED

OPTIMIZING SUPPLY CHAIN FINANCIAL PERFORMANCE

CRC Press Manufacturing systems don't exist in a vacuum, isolated from the rest of the company, but they are often managed that way. A truly effective, highly competitive manufacturing company integrates its manufacturing, marketing, sales, purchasing, and financial functions into a well-coordinated whole. *Manufacturing at Warp Speed: Optimizing Supply Chain Financial Performance* explains in detail how to coordinate all these functions to maximize sales revenue while controlling inventory and overhead costs. Ultimately, the effects of applying the new Simplified-Drum-Buffer-Rope (DBR II) introduced by the authors include dramatically faster manufacturing cycle times, shorter order-to-delivery lead times, higher on-time delivery reliability, and better customer satisfaction. The book gives you everything a typical production professional needs to implement this new DBR approach. A supplemental feature - the Management Interactive Case Study Simulator (MICSS) - is included with the book. Available for download via the CRC Press website, the simulator sets up a virtual company where you can test and practice the processes you learn in the book before implementing them in your organization. The book and software together constitute the complete package for learning how to streamline manufacturing operations. The first book available on second generation Drum-Buffer-Rope, *Manufacturing at Warp Speed: Optimizing Supply Chain Financial Performance* describes the simplest, most efficient methods for reducing manufacturing cycle time and increasing the speed of manufacturing yet devised. Fully illustrated, with numerous examples, case studies, and manufacturing scenarios, the book is so easy to read that even the novice can understand it. Correct use of this new method practically assures that your company has the competitive advantage.

E-PLANNING AND COLLABORATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. E-planning is a significant component in addressing the key concerns as the world

population moves towards urban environments. **E-Planning and Collaboration: Concepts, Methodologies, Tools, and Applications** contains a compendium of the latest academic material on the emerging interdisciplinary areas of e-planning and collaboration. Including innovative studies on data management, urban development, and crowdsourcing, this multi-volume book is an ideal source for planners, policymakers, researchers, and graduate students interested in how recent technological advancements are enhancing the traditional practices in e-planning.

OPERATIONS AND SERVICE MANAGEMENT: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Organizations of all types are consistently working on new initiatives, product lines, and workflows as a way to remain competitive in the modern business environment. No matter the type of project at hand, employing the best methods for effective execution and timely completion of the task is essential to business success. **Operations and Service Management: Concepts, Methodologies, Tools, and Applications** is a comprehensive reference source for the latest research on business operations and production processes. It examines the need for a customer focus and highlights a range of pertinent topics such as financial performance measures, human resource development, and business analytics, this multi-volume book is ideally designed for managers, professionals, students, researchers, and academics interested in operations and service management.

MANAGEMENT, A BIBLIOGRAPHY FOR NASA MANAGERS

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MANAGEMENT, A CONTINUING BIBLIOGRAPHY WITH INDEXES

EMERGING FRONTIERS IN OPERATIONS AND SUPPLY CHAIN MANAGEMENT

THEORY AND APPLICATIONS

Springer Nature 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.

CURRICULUM HANDBOOK WITH GENERAL INFORMATION CONCERNING ... FOR THE UNITED STATES AIR FORCE ACADEMY

ADVERTISING AND BRANDING: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Effective marketing techniques are a driving force behind the success or failure of a particular product or service. When utilized correctly, such methods increase competitive advantage and customer engagement. Advertising and Branding: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on emerging technologies, techniques, strategies, and theories for the development of advertising and branding campaigns in the modern marketplace. Featuring extensive coverage across a range of topics, such as customer retention, brand identity, and global advertising, this innovative publication is ideally designed for professionals, researchers, academics, students, managers, and practitioners actively involved in the marketing industry.

ICTE IN TRANSPORTATION AND LOGISTICS 2019

Springer Nature This proceedings volume explores the latest advances in transport and logistics, while also discussing the applications of modern

information technologies, telecommunications, electronics, and prospective research methods and analyzing their impacts on society and the environment, which in turn determine the future development of these technologies. The book is intended for a broad readership, including transport and logistics business planners and technical experts, leveraging industry knowledge and facilitating technology adoption in promising business regions and transit corridors such as Ukraine, Kazakhstan, and others. The authors, who include policy planners and crafters as well as education and training professionals, address various types of intermodal transport such as rail, road, maritime, air, etc.