

## Fundamentals Of Production Logistics Theory Tools And Applications

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This book describes the fundamentals of production logistics by modelling the principles of Logistic Operating Curves for production and storage processes holistically for the first time. Its mathematical derivation and calculation based upon industrial data is part of the content as well.

**Fundamentals of Production Logistics: Theory, Tools and ...**

This book comprehensively encapsulates for the first time the fundamentals of modeling Logistic Operating Curves for production and storage processes including how they can be derived and calculated based on standard operating data.

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Fundamentals of Production Logistics Theory, Tools and Applications. Authors (view affiliations) Peter Nyhuis; Hans-Peter Wiendahl; Book. 141 ... Funnel model Inventory management Logistic analysis Logistic models Operating curve theory Operating curves Production logistics Storage processes Supply Chains Throughput diagram logistics production ...

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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.

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

This book synthesizes the current state of knowledge on logistics infrastructures and process modeling, especially for processes that are exposed to changing and uncertain environments. It then builds on this knowledge to present a new concept of dependable product delivery assurance. In order to quantitatively assess dependability, a service continuity oriented approach as well as an imperfect knowledge based concept of risk are employed. This approach is based on the methodology of service engineering and is closely related to the idea of the resilient enterprise, as well as the concept of disruption-tolerant operation. The practical advantages of this concept are subsequently illustrated in three sample applications: a modified FMECA method, an expert system with fuzzy reasoning, and a simulation agent-based model of logistic network resilience. The book will benefit a broad readership, including: researchers, especially in systems science, management science and operations research; professionals, especially managers; project managers and analysts; and undergraduate, postgraduate and MBA students in engineering.

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.

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.

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.

This open access book highlights the interdisciplinary aspects of logistics research. Featuring empirical, methodological, and practice-oriented articles, it addresses the modelling, planning, optimization and control of processes. Chiefly focusing on supply chains, logistics networks, production systems, and systems and facilities for material flows, the respective contributions combine research on classical supply chain management, digitalized business processes, production engineering, electrical engineering, computer science and mathematical optimization. To celebrate 25 years of interdisciplinary and collaborative research conducted at the Bremen Research Cluster for Dynamics in Logistics (LogDynamics), in this book hand-picked experts currently or formerly affiliated with the Cluster provide retrospectives, present cutting-edge research, and outline future research directions.

The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg, Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart factories of industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator 4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing; gamification of complex systems design development; lean and green manufacturing; and eco-efficiency in manufacturing operations.

Unternehmen mit kurzen Lieferzeiten, hoher Liefertreue und niedrigen Beständen wachsen schnell und erzielen hohe Gewinne. Wie Unternehmen diese logistische Herausforderung meistern können, zeigt das Buch anhand von aktuellen Forschungsergebnissen der Leibniz Universität Hannover. Der Band gibt einen umfassenden Überblick über die Aufgaben und Verfahren der Fertigungssteuerung und befähigt Leser dazu, Schwächen in diesem Bereich zu erkennen und zu korrigieren. Ein fundiertes Nachschlagewerk für Studierende, Dozenten, Ingenieure und Wissenschaftler.

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