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Strategic Management of Built Facilities Craig Langston, Rima Lauge-Kristensen, 2013-05-13 The effective management of facilities can significantly improve business productivity In this textbook the authors provide an overview of facility economics and outline the way in which businesses and facility managers can get better value from their physical assets Students on facilities management and property related degrees will find this an invaluable introduction

Handbook Of Industrial Automation Richard Shell, 2000-08-29 Supplies the most essential concepts and methods necessary to capitalize on the innovations of industrial automation including mathematical fundamentals ergonomics industrial robotics government safety regulations and economic analyses

Proceedings of the 8th International Ergonomics Conference Davor Sumpor, Kristian Jambrošić, Tanja Jurčević Lulić, Diana Milčić, Ivana Salopek Čubrić, Irena Šabarić, 2021-03-29 This book presents the proceedings of the 8th International Ergonomics Conference ERGONOMICS held in Zagreb Croatia on December 2 5 2020 By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics healthcare management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and wellbeing of individuals The proceedings include papers from researchers and practitioners scientists and physicians institutional leaders managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies domains and productive sectors

Information Systems, Logistics, and Supply Chain Cecilia Temponi, Nico Vandaele, 2018-01-10 This book constitutes revised selected papers from the 6th International Conference on Information Systems Logistics and Supply Chains ILS 2016 held in Bordeaux France in June 2016 The conference deals with topics related to supply chain design and management information and decision making systems and innovative practices in logistics It also encompasses issues such as sustainability societal impact uncertainty and collaboration in supply chain management The 13 full papers presented were carefully reviewed and selected for inclusion in this volume and reflect the diverse challenges and opportunities experienced in logistics information and supply chain management They were organized in topical sections named transportation and logistics supply chain planning collaboration

and operations in supply chain and applications of supply chain topics to business environments case studies *Logistics Operations and Management* Reza Farahani, Shabnam Rezapour, Laleh Kardar, 2011-05-25 This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment Topics covered include important tools for strategic decision making transport packaging warehousing retailing customer services and future trends An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry Towards Sustainable Chemical Processes Jingzheng Ren, Yufei Wang, Chang He, 2020-06-30 Towards Sustainable Chemical Processes describes a comprehensive framework for sustainability assessment design and the processes optimization of chemical engineering Beginning with the analysis and assessment in the early stage of chemical products initiating this book focuses on the combination of science sustainability and process system engineering involving mathematical models industrial ecology circular economy energy planning process integration and sustainability engineering All chapters throughout answered two fundamental questions in depth 1 what tools and models are available to be used to assess and design sustainable chemical processes 2 what the core theories and concepts are to get into the sustainable chemical process fields Therefore Towards Sustainable Chemical Processes is an indispensable guide for chemical engineers researchers students practitioners and consultants in sustainability related area Provides innovative novel and comprehensive methods and models for sustainability assessment design and optimization and synthesis and integration of chemical engineering processes Combines sustainability science with process system engineering Integrates mathematical models industrial ecology circular economy energy planning process integration and sustainability engineering Includes new case studies related to renewable energy resource management process synthesis and process integration **Warehousing and Material Handling Systems for the Digital Industry** Riccardo Manzini, Riccardo Accorsi, 2024-10-02 This book illustrates innovative support decision models methods and advanced automation and robotic technologies aimed at enhancing the overall performance of Warehousing and Material Handling WMH in terms of time and space efficiency service levels labor safety and ergonomics It provides a collection of cutting edge issues commonly faced in warehousing systems worldwide along with a structured set of methodologies and technological solutions to address them Warehousing and Material Handling WMH are pivotal processes within supply chain and production systems They involve the handling consolidation and storage of goods such as raw materials parts components and finished products within distribution centers WMH is also a key component of distribution networks serving as a hierarchy of facilities dedicated to receiving materials from vendors and shipping to customers while meeting service level and performance targets The book offers readers the opportunity to explore this topic from multiple knowledge levels and perspectives At the basic level it introduces readers to the problems issues nomenclature fundamental models and methods to support the decision making process At an intermediate level it delves into the state of the art on

critical issues in warehousing and material handling systems Finally at an advanced level it delves into the most challenging and recent research and industry issues addressing both providers and users of WMH solutions and technologies The book's intended audience includes undergraduate students graduate students PhD students post doc researchers scholars and researchers from academia and industry It is also relevant for practitioners and managers working in production logistics and supply chain environments The authors approach is multidisciplinary with a special focus on logistics automation optimization safety ergonomics and the overall sustainability of WMH systems and operations

Computational Logistics Francesco Corman, Stefan Voß, Rudy R. Negenborn, 2015-09-18 This book constitutes the refereed proceedings of the 6th International Conference on Computational Logistics ICCL 2015 held in Delft The Netherlands in September 2015 The 50 papers presented in this volume were carefully reviewed and selected for inclusion in the book They are organized in topical sections entitled transport over ground transport over water international coordination within a system external coordination among systems

New Trends in Distribution Logistics M. Grazia Speranza, Paul Stähly, 2012-12-06 The globalization of markets has reinforced the interest in logistics A constantly raising level of competition among companies stresses the need for improved logistic processes in terms of cost reduction and increased service level The book covers the main problems of distribution logistics network design and location problems tactical and operational planning of transport internal logistics and inventory management The book contains a rigorous methodological approach with an emphasis on practical problems Two survey papers provide references and open problems

Computerworld, 1984-08-27 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network

Distribution Logistics Bernhard Fleischmann, Andreas Klose, 2004-08-25 The complexity of distribution systems is augmented by various trends globalization of the manufacturing industry rising customer demands and the reverse flows within closed loop systems In this light the need for advanced planning methods that are based on quantitative optimization is constantly increasing This book takes up the challenges posed by these developments In doing so it presents recent results and case studies from a group of researchers that regularly meet at the IWDL International Workshop on Distribution Logistics The text covers the design of distribution networks vehicle routing warehousing and reverse logistics It also contains a comprehensive review of more than 60 case studies in reverse logistics

Sustainable Logistics and Production in Industry 4.0 Katarzyna Grzybowska, Anjali Awasthi, Rapinder Sawhney, 2019-11-30 This book proposes essential methods models and case studies for Sustainable Logistics and Production in Industry 4.0 In addition to identifying and discussing various challenges and future prospects it also features numerous case studies and quantitative research from different sectors The authors which include academics and managers present insightful tips on the technical organizational and social aspects of implementing Sustainable Logistics

and Production in Industry 4.0 In today's world changes are coming faster and more unpredictably Production is becoming more automated computerized and complex In short Industry 4.0 is creating many new opportunities but at the same time several new challenges This book offers a valuable resource for all academics and practitioners who want to deepen their knowledge of Sustainable Logistics and Production in Industry 4.0

Innovative Applications in Smart Cities Alberto Ochoa, Genoveva Vargas-Solar, Javier Alfonso Espinosa Oviedo, 2021-09-23 This book is a compilation of chapters on scientific work in novel and innovative reference that compiles interdisciplinary perspectives about diverse issues related with Industry 4.0 and smart cities in different ways i.e. intelligent optimisation industrial applications in the real world social applications and technology applications with a different perspective about existing solutions Chapters review research in improving optimisation in smart manufacturing logistics of products and services optimisation of different elements in the time and location social applications to enjoy our life of a better way and applications that increase daily life quality This book covers applications of Industry 4.0 applications to improve the life of the citizens in a smart city and finally welfare of the working age population and their expectations in their jobs correlated with the welfare work relationship

Efficiency and Innovation in Logistics Uwe Clausen, Michael ten Hompel, J. Fabian Meier, 2013-08-16 The importance of logistics in all its variations is still increasing New technologies emerge new planning methods and algorithms are developed only to face a market with a growing complexity and the need of weighting monetary costs against ecological impact Mastering these challenges requires a scientific viewpoint on logistics but always with applications in mind This volume presents up to date logistics research in all its diversity and interconnectedness It grew out of the International Logistics Science Conference ILSC held in Dortmund in September 2013 bringing together leading scientists and young academics from nine different countries The conference was jointly organized by the Efficiency Cluster Logistics and the Fraunhofer Institute for Material Flow and Logistics The Program Committee used a double blind review process to choose the 12 strongest contributions which were then grouped in four areas Sustainability logistics including electric mobility smart information communication technologies and corporate social responsibility management Intralogistics including the detection of autonomous vehicles 3D computer vision and sensor functions for forklift trucks Transport logistics including distribution centre organization delivery performance in railway systems and logistics reference modelling Logistics facilities including environmental impact of container ports parcel sorting systems and model based systems engineering

Principles of Operations Management Jay H. Heizer, Barry Render, 1999 This introduction to operations management presents a state of the art view of the primary activities of the operations function in organizations New chapters on Global Operations and Supply Chain Management a free CD ROM is packaged with every book and comprehensive web site support is provided This paperback text has the same 17 core chapters as Heizer Render's Operations Management 5e but does not have the 6 quantitative modules Part of the JIT program

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