

Janat Shah Supply Chain Management

Supply Chain Management Supply-Chain Optimization, Part II Circular Economy and Technological Innovation China's Insurance and Green Economy Development in the Context of Sustainable Development 11th International Symposium on Process Systems Engineering - PSE2012 Operations Research Applications in Health Care Management Process Systems Engineering for Pharmaceutical Manufacturing Modeling and Simulation in Chemical Engineering Supply Chain & Logistics 2005 CAPE Finance India APMR Maynard's Industrial and Systems Engineering Handbook, Sixth Edition Manufacturing Planning and Control for Supply Chain Management Strategic Supply Chain India Today International The Deal Vikalpa Optimal Planning in Biopharmaceutical Supply Chains Chemical Engineering Janat Shah Syed Abdul Rehman Khan Yuantao Xie Iftekhar A Karimi Cengiz Kahraman Ravendra Singh Christo Boyadjiev L. Puigjaner Bopaya Bidanda Thomas E. Vollmann Shoshanah Cohen Lenrick Andrew Johnston Miguel A. Galan

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inspired by the leading authority in the field the centre for process systems engineering at imperial college london this book includes theoretical developments algorithms methodologies and tools in process systems engineering and applications from the

chemical energy molecular biomedical and other areas it spans a whole range of length scales seen in manufacturing industries from molecular and nanoscale phenomena to enterprise wide optimization and control as such this will appeal to a broad readership since the topic applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge the ultimate reference work for years to come

this book explores the circular economy its context methodology and commercial strategies with a focus on waste minimization recycling green marketing and sustainable business practices to facilitate resource recovery it considers ir 4.0 and 5.0 to show how smart technology innovation extends circular economy through industrial organizational sustainability and investigates circular economy technology innovation in multiple scenarios to exploit product reusability and technological innovation in asian european and australian contexts it discusses novel digital technologies such as blockchain additive manufacturing ai ml and iot for global supply chain tracking this book is valuable for instructors and students in business environmental studies supply chain management product remanufacturing and marketing programs seeking cutting edge circular economy and technological innovation trends

while the pse community continues its focus on understanding synthesizing modeling designing simulating analyzing diagnosing operating controlling managing and optimizing a host of chemical and related industries using the systems approach the boundaries of pse research have expanded considerably over the years while early pse research was largely concerned with individual units and plants the current research spans wide ranges of scales in size molecules to processing units to plants to global multinational enterprises to global supply chain networks biological cells to ecological webs and time instantaneous molecular interactions to months of plant operation to years of strategic planning the changes and challenges brought about by increasing globalization and the common global issues of energy sustainability and environment provide the motivation for the theme of pse2012 process systems engineering and decision support for the flat world each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher reports on the state of the art advances in the various fields of process systems engineering addresses common global problems and the research being done to solve them

this book offers a comprehensive reference guide to operations research theory and applications in health care systems it provides readers with all the necessary tools for solving health care problems the respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts of operations research for the management of operating

rooms intensive care units supply chain emergency medical service human resources lean health care and procurement to foster a better understanding the chapters include relevant examples or case studies taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on health care management problems the book presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments

process systems engineering for pharmaceutical manufacturing from product design to enterprise wide decisions volume 41 covers the following process systems engineering methods and tools for the modernization of the pharmaceutical industry computer aided pharmaceutical product design and pharmaceutical production processes design synthesis modeling and simulation of the pharmaceutical processing unit operation integrated flowsheets and applications for design analysis risk assessment sensitivity analysis optimization design space identification and control system design optimal operation control and monitoring of pharmaceutical production processes enterprise wide optimization and supply chain management for pharmaceutical manufacturing processes currently pharmaceutical companies are going through a paradigm shift from traditional manufacturing mode to modernized mode built on cutting edge technology and computer aided methods and tools such shifts can benefit tremendously from the application of methods and tools of process systems engineering introduces process system engineering pse methods and tools for discovering developing and deploying greener safer cost effective and efficient pharmaceutical production processes includes a wide spectrum of case studies where different pse tools and methods are used to improve various pharmaceutical production processes with distinct final products examines the future benefits and challenges for applying pse methods and tools to pharmaceutical manufacturing

this book presents a theoretical analysis of the modern methods used for modeling various chemical engineering processes currently the two primary problems in the chemical industry are the optimal design of new devices and the optimal control of active processes both of these problems are often solved by developing new methods of modeling these methods for modeling specific processes may be different but in all cases they bring the mathematical description closer to the real processes by using appropriate experimental data in this book the authors detail a new approach for the modeling of chemical processes in column apparatuses further they describe the types of neural networks that have been shown to be effective in solving important chemical engineering problems readers are also presented with mathematical models of integrated bioethanol supply chains ibsc that achieve improved economic and environmental sustainability the integration of energy and mass processes is one of the most powerful tools for creating sustainable and energy efficient production systems this book defines the main approaches for

the thermal integration of periodic processes direct and indirect and the recent integration of small scale solar thermal dryers with phase change materials as energy accumulators an exciting overview of new approaches for the modeling of chemical engineering processes this book serves as a guide for the important innovations being made in theoretical chemical engineering with reference to india

the classic industrial engineering resource fully updated for the latest advances brought fully up to date by expert bopaya m bidanda this go to handbook contains exhaustive application driven coverage of industrial engineering ie principles practices materials and systems featuring contributions from scores of international professionals in the field maynard s industrial engineering handbook sixth edition provides a holistic view of exactly what an industrial engineer in today s world needs to succeed all new chapters and sections cover logistics probability and statistics supply chains quality product design systems engineering and engineering management coverage includes productivity engineering economics human factors ergonomics and safety compensation management facility logistics planning and scheduling operations research statistics and probability supply chains and quality product design manufacturing models and analysis systems engineering engineering management the global industrial engineer ie application environments

vollman berry whybark and jacobs manufacturing planning control systems 5 e provides comprehensive real world based coverage of the concepts tools and methods used to manage and control manufacturing systems this major revision contains four entirely new chapters and four thoroughly upgraded to nearly original content erp system coverage and the impact of them in the field is covered now in a new introductory chapter 4 as well as being integrated heavily into many other chapters from sales and operations planning 3 to advanced scheduling systems 16

agile strategic supply chain management is a key competitive necessity in today s no room for error business arena and few organizations have acquired more knowledge and demonstrated better results than the team at global management consultancy pittiglio rabin todd and mcgrath prtm in the breakthrough reference strategic supply chain management two of prtm s leading consultants in this practice explain everything that corporate decision makers need to know to create value and competitive advantage from their supply chains

unlike extensive major reference works or handbooks chemical engineering trends and developments provides readers with a ready reference to latest techniques in selected areas of chemical engineering where research is and will be focused in the future these areas are bioseparations particle science and design nanotechnology and reaction engineering the aim of the book is to provide academic and r d researchers with an overview of the main areas of technical development and how these techniques can be applied each chapter focuses on a technique plus a selection of applications or examples of where the technique could be applied

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