

Production Engineering

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companies often struggle to turn successful research into viable commercial products processes and systems this book defines technology development and reveals methods to successfully evaluate fund and commercialize a technology cases studies help the reader evaluate the connection between a technology and potential markets set useful hypotheses develop statistically valid conclusions and apply those conclusions to business goals

process integration and intensification are means to improve the sustainability metrics of the industrial processes balancing the pillars of economy environment and social demand the book covers a sequential framework for the design and operation of microalgae based facilities using process integration and intensification discusses products and applications and provides a global perspective with contributions from renowned experts covers relevant opportunities of process integration and intensification applied to microalgae based systems provides a complete review of the state of the art of these industrial approaches presents new insights into industrial sustainability

written by an experienced professional this book introduces chemists to process development using examples from the pharmaceutical agrochemical and fragrance industries the focus is on small molecules rather than biomolecules and on relatively small scale production rather than bulk petrochemicals the coverage is broad going from initial route development through pilot plant operations to full scale production

the book provides stepwise guidelines for the development of piping and instrumentation diagrams for all different areas of chemical engineering such as pumps heat exchangers columns compressors vessels instrumentation control logic piping valves notes equipment design and flare systems it also provides guidance to commonly used methodology to mark up each subsystem mentioned earlier and discusses common tools used in the industry

liquid multiphase processes represent a promising option for realizing novel efficient and sustainable production processes as required for the transformation towards climate neutral manufacturing processes this volume presents the results obtained over

twelve years in the dfg funded collaborative project transregio 63 integrated chemical processes in liquid multiphase systems in an interdisciplinary approach to the design and operation of such processes essential principles of green chemistry are realized such as using long chain olefins as model representatives of renewable raw materials highly efficient catalysts and green solvents linked with process optimization to improve energy and material efficiency experts from different fields addressed all steps of the development process from the description of the reactions on the molecular level via thermodynamics and the design of efficient separation processes to the operation of entire miniplants for liquid multiphase production processes thus the complete development chain from the first reaction related investigations in the laboratory to the technological realization in miniplants with model based control is demonstrated numerous methodological innovations are proposed and validated using several innovative phase systems thermomorphic multiphase systems microemulsion systems pickering emulsions and homogeneously catalyzed reactions engineers and chemists from the chemical industry as well as advanced students and researchers will get valuable insights into the physico chemical phenomena in chemical multiphase processes and benefit from recommendations concerning methods for the selection of phase systems and rapid model based process development

volume 1 deals with the origins of process gases and describes recovery properties and composition it covers as well the shale gas the production from hydrocarbon rich deep shale formations being one of the most quickly expanding trends in onshore domestic gas exploration vol 2 composition and processing of gas streams vol 3 uses of gas and effects

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the fully up dated edition of the two volume work covers both the theoretical foundation as well as the practical aspects presenting the complete insight into driving a chemical reaction provides a deep understanding for new potential technologies updated overview on devices and new key concepts of experimental procedures vol 2 applications

handbook of nanomaterials for intelligent sensing applications provides insights into the production of nanosensors and their applications the book takes an interdisciplinary approach showing how nano enhanced sensing technology is being used in a variety of industry sectors and addressing related challenges surrounding the production fabrication and application of nanomaterials based sensors at both experimental and theoretical levels this book is an important reference source for materials scientists and engineers who want to learn more about how nanomaterials are being used to enhance sensing products and devices for a variety of industry sectors the pof miniaturized device components and engineering systems of micro and nanoscale is beyond the capability of conventional machine tools the production of intelligent sensors at nanometer scale presents great challenges to engineers in design and manufacture the manufacturing of nano scaled devices and components involves isolation transportation and re assembly of atoms and molecules this nanomachining technology involves not only physical chemical processes as in the case of microfabrication but it also involves application and integration of the principles of molecular biology explains how the functionalization of nanomaterials is being used to create more effective sensors explores the major challenges of using nanoscale sensors for industrial applications on a broad scale assesses which classes of nanomaterial should best be used for sensing applications

the authors describe a risk based approach to commissioning and start up of process machinery techniques are provided to quantify the safety risks and risks associated with machinery failure and estimated impact on start up schedules examples of defining and quantifying the risks based on the extent of the commissioning effort as a function of criticality of the machinery are offered also included are numerous directly applicable checklists

the book is a comprehensive view of all electromembrane processes including electromembrane processes for energy conversion a currently very significant problem the necessary theory and basic information needed for understanding the technology are explained in part i materials used for ion selective membranes and seoaration processes are described in part ii and the applications for synthesis and energy conversion in part iii

this is the revised edition of the book with new chapters to incorporate the latest developments in the field it contains appox 200 problems from various competitive examinations gate ies ias have been included the author does hope that with this the utility of the book will be further enhanced

the new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time how can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity quality sustainability reliability agility resilience and best practices with rapid time to production and value the answers are found in the fully updated new edition of manufacturing engineering handbook the goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process design development tools processes quality speed output safety and sustainability you will gain access to information on conventional and modern technologies manufacturing processes and operations management that will assist you in achieving these goals the book is written by a team of more than 100 internationally renowned manufacturing engineering experts and pared down from its original 1200 pages the new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern global manufacturing world brand new chapters on eco design and sustainability nano materials and nano manufacturing facilities planning operations research new sections on plastics composites and moldmaking global manufacturing and supply chain management increased coverage of design for six sigma and adaptive manufacturing affiliated web site with color illustrations graphs charts discussions on future trends additional technical papers and suggestions for further reading

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