



Proceb Intensification

**Fausto Gallucci, Martin van Sint
Annaland**



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Process Intensification David Reay, Colin Ramshaw, Adam Harvey, 2013-06-05 Process Intensification Engineering for Efficiency Sustainability and Flexibility is the first book to provide a practical working guide to understanding process intensification PI and developing successful PI solutions and applications in chemical process civil environmental energy pharmaceutical biological and biochemical systems Process intensification is a chemical and process design approach that leads to substantially smaller cleaner safer and more energy efficient process technology It improves process flexibility product quality speed to market and inherent safety with a reduced environmental footprint This book represents a valuable resource for engineers working with leading edge process technologies and those involved research and development of chemical process environmental pharmaceutical and bioscience systems No other reference covers both the technology and application of PI addressing fundamentals industry applications and including a development and implementation guide Covers hot and high growth topics including emission prevention sustainable design and pinch analysis World class authors Colin Ramshaw pioneered PI at ICI and is widely credited as the father of the technology The Fundamentals of Process Intensification Andrzej Stankiewicz, Tom Van Gerven, Georgios Stefanidis, 2019-06-13 This advanced textbook covering the fundamentals and industry applications of process intensification PI discusses both the theoretical and conceptual basis of the discipline Since interdisciplinarity is a key feature of PI the material contained in the book reaches far beyond the classical area of chemical engineering Developments in other relevant disciplines such as chemistry catalysis energy technology applied physics electronics and materials science are extensively described and discussed while maintaining a chemical engineering perspective Divided into three major parts the first introduces the PI principles in detail and illustrates them using practical examples The second part is entirely devoted to fundamental approaches of PI in four domains spatial thermodynamic functional and temporal The third and final part explores the methodology for applying fundamental PI approaches in practice As well as detailing technologies the book focuses on safety energy and environmental issues giving guidance on how to incorporate PI in plant design and operation safely efficiently and effectively **Process**

Intensification Jan Harmsen, Maarten Verkerk, 2020-07-20 Process Intensification is a comprehensive textbook and treats the theory of process intensification design and all innovation steps from idea generation to commercial implementation and all focused on contributing to the UN Sustainable Development Goals This book covers the hard elements of design modelling and experimental validations and the soft elements values of engineers interests of stakeholders and beliefs of society

18th European Symposium on Computer Aided Process Engineering Bertrand Braunschweig, Xavier Joulia, 2008-06-18 Plenary Lectures Topic 1 Off Line Systems Topic 2 On Line Systems Topic 3 Computational Numerical Solutions Strategies Topic 4 Integrated And Multiscale Modelling And Simulation Topic 5 Cape For The Users Topic 6 Cape And Society Topic 7 Cape In Education **Process Intensification** Fernando Israel Gómez-Castro, Juan Gabriel

Segovia-Hernández,2019-10-21 Intensified processes have found widespread application in the chemical and petrochemical industries The use of intensified systems allows for a reduction of operating costs and supports the greening of chemical processes However the design of intensified equipment requires special methodologies This book describes the fundamentals and applications of these design methods making it a valuable resource for use in both industry and academia *Systematik zur Umstellung von Chargenfertigung auf kontinuierliche Produktion an Beispielen zur Farbenherstellung* Matthias

Wengerter,2019-07-09 Diese Dissertation stellt eine Systematik vor welche die Umstellung existierender Batchverfahren auf kontinuierliche Produktion unter Berücksichtigung multikriterieller Aspekte ermöglicht Hilfestellende Fragen und Leitlinien sowie Vorschläge zur Aufgabenpriorisierung begleiten durch die Evaluationsmethodik Diese wird schrittweise erläutert und reicht von der ersten Idee zur Umstellung des Referenzprozesses mittels immer feiner werdender Detaillierung bis zur finalen Umsetzung einer vorteilhafteren kontinuierlichen Prozessvariante in die Praxis Mittels technologischer und ökonomischer Prozessbewertung ist es möglich Herausforderungen bereits im Voraus zu identifizieren blickerweise resultiert die Umstellung von chargenweiser zu kontinuierlicher Betriebsweise in erhöhter Prozesseffizienz und verbesserter Stabilität der Produktqualität In vielen Fällen lassen sich Einsparungen in Form von verringertem Energiebedarf und Reinigungsmiteleinsatz erzielen Weiterhin kann die Anwendung dieser Methodik zu einem besseren Verständnis der betriebenen Prozesse und deren Gesamtleistung führen Die Systematik wird anhand zweier Beispielprozesse Produktion einer Bindemittelmulsion mit hochviskosem organischem Ausgangsstoff sowie Herstellung hoch feststoffhaltiger Wandfarbe illustriert die im Rahmen der Forschungsarbeit von absatzweisem Betrieb auf kontinuierliche Herstellweise umgestellt wurden **Control and Safety Analysis of Intensified Chemical Processes** Dipesh Shikchand Patle,Gade Pandu

Rangaiah,2024-03-25 Resource on the control and safety analysis of intensified chemical processes ranging from general methods to specific applications Control and Safety Analysis of Intensified Chemical Processes covers the basic principles of and recent developments in control and safety analysis of intensified chemical processes ranging from dynamic simulations and safety analysis to the design and control of important processes The text discusses general methods and tools such as dynamic simulation control and safety analysis as well as design aspects and analysis of important applications in order to provide scientists and engineers with an understanding of the design control and safety considerations involved in intensified chemical processes Sample topics covered in Control and Safety Analysis of Intensified Chemical Processes include Simulation and optimization methods common programs and simulators for simulation and optimization and interfacing of simulators and optimizers Programs simulators for dynamic simulation and control tuning of controllers and popular criteria for control assessment Control of a hybrid reactive extractive distillation systems for ternary azeotropic mixtures reactive distillation in recycle systems and middle vessel batch distillation with vapor recompression Safety analysis of intensified processes e.g extractive distillation dividing wall column dividing wall column with mechanical vapor recompression and

algal biodiesel process A comprehensive resource on the subject Control and Safety Analysis of Intensified Chemical Processes is a highly valuable reference for researchers students and practitioners interested in process intensification and their applications The text can be adopted by instructors for use in advanced courses on process control and safety *The Fundamentals of Process Intensification* Andrzej Stankiewicz,Tom Van Gerven,Georgios Stefanidis,2019-06-13 This advanced textbook covering the fundamentals and industry applications of process intensification PI discusses both the theoretical and conceptual basis of the discipline Since interdisciplinarity is a key feature of PI the material contained in the book reaches far beyond the classical area of chemical engineering Developments in other relevant disciplines such as chemistry catalysis energy technology applied physics electronics and materials science are extensively described and discussed while maintaining a chemical engineering perspective Divided into three major parts the first introduces the PI principles in detail and illustrates them using practical examples The second part is entirely devoted to fundamental approaches of PI in four domains spatial thermodynamic functional and temporal The third and final part explores the methodology for applying fundamental PI approaches in practice As well as detailing technologies the book focuses on safety energy and environmental issues giving guidance on how to incorporate PI in plant design and operation safely efficiently and effectively **Process Intensification in Chemical Engineering** Juan Gabriel Segovia-Hernández,Adrián Bonilla-Petriciolet,2016-04-02 This book will provide researchers and graduate students with an overview of the recent developments and applications of process intensification in chemical engineering It will also allow the readers to apply the available intensification techniques to their processes and specific problems The content of this book can be readily adopted as part of special courses on process control design optimization and modelling aimed at senior undergraduate and graduate students This book will be a useful resource for researchers in process system engineering as well as for practitioners interested in applying process intensification approaches to real life problems in chemical engineering and related areas **Pharmaceutical Inhalation Aerosol Technology, Third Edition** Anthony J. Hickey,Sandro R. da Rocha,2019-03-26 This fully revised and updated third edition of Pharmaceutical Inhalation Aerosol Technology encompasses the scientific and technical foundation for the rationale design componentry assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease It focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery The expanded scope considers previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery lung deposition and clearance that are used as measures of effective dose delivery Key Features Provides a thoroughly revised and expanded reference with authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosols Emphasizes the importance of pharmaceutical engineering as a foundational element of all inhaler products and their

application to pulmonary drug delivery Addresses the physics chemistry and engineering principles while establishing disease relevance Expands the technology focus of the original volumes to address the title more directly Offers an impressive breadth of coverage as well as an international flavour from outstanding editors and contributors

Intensification of Biobased Processes Andrzej Górak, Andrzej Stankiewicz, 2018-06-18 In recent years bioprocessing has increased in popularity and importance however bioprocessing still poses various important techno economic and environmental challenges such as product yields excessive energy consumption for separations in highly watery systems batch operation or the downstream processing bottlenecks in the production of biopharmaceutical products Many of those challenges can be addressed by application of different process intensification technologies discussed in the present book The first book dedicated entirely to this area Intensification of Biobased Processes provides a comprehensive overview of modern process intensification technologies used in bioprocessing The book focusses on four different categories of biobased products bio fuels and platform chemicals cosmeceuticals food products and polymers and advanced materials It will cover various intensification aspects of the processes concerned including bio reactor intensification intensification of separation recovery and formulation operations and process integration This is an invaluable source of information for researchers and industrialists working in chemical engineering biotechnology and process engineering

Process Synthesis and Process Intensification Ben-Guang Rong, 2017-09-25 Process synthesis and process intensification are becoming state of the art scientific fields that provide the methods and tools to improve process technologies in terms of high energy efficiency low capital investment low emissions improved safety and less hazardous byproducts to achieve sustainable products and processes The book covers manufacturing processes from both fossil and biomass based feedstocks for graduate students

Process Intensification for Sustainable Energy Conversion Fausto Gallucci, Martin van Sint Annaland, 2015-05-12 This book addresses the application of process intensification to sustainable energy production combining two very topical subject areas Due to the increasing process of petroleum sustainable energy production technologies must be developed for example bioenergy blue energy chemical looping combustion concepts for CO₂ capture etc Process intensification offers significant competitive advantages because it provides more efficient processes leading to outstanding cost reduction increased productivity and more environment friendly processes

Re-Engineering the Chemical Processing Plant Andrzej Stankiewicz, Jacob A. Moulijn, 2018-12-14 The first guide to compile current research and frontline developments in the science of process intensification PI Re Engineering the Chemical Processing Plant illustrates the design integration and application of PI principles and structures for the development and optimization of chemical and industrial plants This volume updates professionals on emerging PI equipment and methodologies to promote technological advances and operational efficacy in chemical biochemical and engineering environments and presents clear examples illustrating the implementation and application of specific process intensifying equipment and methods in various commercial arenas

Modeling of Process Intensification Frerich J. Keil, 2007-06-27 Combining the knowledge involved in process engineering and process modeling this is the first book to cover all modeling methods applicable to process intensification Both the editors and authors are renowned experts from industry and academia in the various fields of process modeling and integrated chemical processes Following an introduction to the topic the book goes on to look at equipment and operational methods monolithic catalysis HEX micro and reverse flow reactors catalytic and reactive distillation the simulated moving bed and vibration bubble column as well as ultrasound and ultrasonic reactors A final chapter is devoted to processes under supercritical conditions In its treatment of hot topics of multidisciplinary interest this book is of great value to researchers and engineers alike

Process Intensification Mirko Skiborowski, Andrzej Górak, 2022-06-06 Process intensification aims for increasing efficiency and sustainability of biochemical production processes This book presents strategies for the intensification of fluid separation processes such as reactive distillation reactive absorption and membrane assisted separations The authors discuss theoretical fundamentals model development methods for synthesis and the design as well as scale up and industrial process applications

Process Intensification Mirko Skiborowski, Andrzej Górak, 2022-10-03 Process intensification aims for increasing efficiency and sustainability of biochemical production processes The second book of our two book series focusses entirely on process intensification by centrifugally enhanced reactive separations The book provides an overview of the main applications of rotating packed beds RPBs in liquid liquid gas liquid and vapor liquid contacting within academic research and industrial applications The book addresses current design rules and modeling frameworks including the tailored design of functional packings by means of additive manufacturing Rotating packed beds are widely applicable and flexible mass transfer machines for process intensification Applications design rules and advanced modeling for rotating packed beds are presented in an interconnected way

Process Design Helmut Mothes, 2015-05-16 This book promotes process design strategies and methods to chemical engineering students and encourages experienced engineers to reflect on and perhaps challenge their daily approach to process design The production facilities and supply chains of the chemical industry represent complex global systems built on sophisticated technological processes While process design of the past could rely on steadily growing economies creating a predictable framework of product demand raw material availability and technological progress today global competition shorter product cycles unreliable raw material supplies and emerging disruptive technologies create new challenges to the design of efficient flexible and sustainable processes A holistic design methodology has to take care of these challenges Process design can build on many excellent chemical engineering textbooks focusing on unit operations process intensification or process integration Only a few books address the creative step finding an initial process structure Process design methodologies constitute the main topic of this book A special focus is given to the search for an optimal process structure process synthesis since an inferior process structure cannot be upgraded into an optimal process during later extensive optimization of process parameters regardless

of the effort The design methodology illustrated in the textbook first outlines alternate strategies to find an initial process structure hierarchical approach or superstructure concepts with heuristic rules or mixed integer non linear programming The role of design targets to guide a process designer is shown for energy integration and capital investment In a next design step process intensification and integration are used to improve the initial process structure with respect to unit operation efficiencies heating cooling and mixing and process synergies heat power integration reaction distillation dividing wall column etc resulting in superior processes The last step of the process design methodology introduces the concept of no regret solutions These no regret solutions aim at process designs offering a robust performance in different future scenarios fluctuating or unexpected product demand Modular designs offer a powerful tool to establish highly flexible chemical processes The design methodology is demonstrated in a comprehensive design case dealing with 6 chemical processes integrated into a production site The design procedure to derive process and plant structures is illustrated in a step by step approach To a large extent this book on process design builds on experiences of the author at Bayer Technology Services The book includes the input of many Bayer people technical contributions exciting suggestions and enlightening discussions The book summarizes courses on Process Intensification and Process Design given by the author at the Technical University Dresden TU Dresden 2008 East China University of Science and Technology ECUST Shanghai 2012 2014 and Ruhr University Bochum RUB 2014 2015

Process Intensification and Integration for Sustainable Design Dominic C. Y. Foo, Mahmoud M. El-Halwagi, 2020-12-01 Presents comprehensive coverage of process intensification and integration for sustainable design along with fundamental techniques and experiences from the industry Drawing from fundamental techniques and recent industrial experiences this book discusses the many developments in process intensification and integration and focuses on increasing sustainability via several overarching topics such as Sustainable Manufacturing Energy Saving Technologies and Resource Conservation and Pollution Prevention Techniques Process Intensification and Integration for Sustainable Design starts discussions on shale gas as an option for the production of chemicals and challenges for process intensification the design and techno economic analysis of separation units to handle feedstock variability in shale gas treatment RO PRO desalination and techno economic and environmental assessment of ultrathin polysulfone membranes for oxygen enriched combustion Next it looks at process intensification of membrane based systems for water energy and environment applications the design of internally heat integrated distillation column HIDiC and graphical analysis and integration of heat exchanger networks with heat pumps Decomposition and implementation of large scale interplant heat integration is covered as is the synthesis of combined heat and mass exchange networks CHAMENs with renewables The book also covers optimization strategies for integrating and intensifying housing complexes a sustainable biomass conversion process assessment and more Covers the many advances and changes in process intensification and integration Provides side by side discussions of fundamental techniques and recent industrial experiences to guide practitioners in their own processes

Presents comprehensive coverage of topics relevant among others to the process industry biorefineries and plant energy management Offers insightful analysis and integration of reactor and heat exchanger network Looks at optimization of integrated water and multi regenerator membrane systems involving multi contaminants Process Intensification and Integration for Sustainable Design is an ideal book for process engineers chemical engineers engineering scientists engineering consultants and chemists Process Intensification Technologies for Green Chemistry Kamelia Boodhoo,Adam Harvey,2013-01-03 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors reactive distillation reactive extraction reactive absorption Membrane separations for green chemistry Industry relevance of process intensification including economics and environmental impact opportunities for energy saving and practical considerations for industrial implementation Process Intensification for Green Chemistry is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and or separator systems in a range of industries to achieve green chemistry principles

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