

INTEGRATED DESIGN AND SIMULATION OF CHEMICAL PROCESSES

ALEXANDRE C. DIMIAN



COMPUTER-AIDED CHEMICAL ENGINEERING, 13

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Integrated Design And Simulation Of Chemical Processes Computer Aided Chemical Engineering

**Jan Harmsen, André B. de Haan, Pieter
L. J. Swinkels**



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Integrated Design and Simulation of Chemical Processes Alexandre C. Dimian, Costin Sorin Bildea, Anton A.

Kiss, 2014-09-18 This comprehensive work shows how to design and develop innovative optimal and sustainable chemical processes by applying the principles of process systems engineering leading to integrated sustainable processes with green attributes Generic systematic methods are employed supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models New to the second edition are chapters on product design and batch processes with applications in specialty chemicals process intensification methods for designing compact equipment with high energetic efficiency plantwide control for managing the key factors affecting the plant dynamics and operation health safety and environment issues as well as sustainability analysis for achieving high environmental performance All chapters are completely rewritten or have been revised This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students being compatible with academic requirements world wide The inclusion of the newest design methods will be of great value to professional chemical engineers Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis creation and assessment Emphasis on sustainable development for the future of process industries Integrated Design and Simulation

of Chemical Processes Alexandre C. Dimian, 2003-05-13 This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques The material covers five sections process simulation thermodynamic methods process synthesis process integration and design project including case studies It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects but will also be of great value to professional engineers interested in the newest design methods Provides an introduction to the newest design methods Of great value to undergraduate and postgraduate students as well as professional engineers Numerous examples illustrate theoretical principles and design issues **Dynamic**

Model Development: Methods, Theory and Applications S. Macchietto, 2003-08-04 Detailed mathematical models are increasingly being used by companies to gain competitive advantage through such applications as model based process design control and optimization Thus building various types of high quality models for processing systems has become a key activity in Process Engineering This activity involves the use of several methods and techniques including model solution techniques nonlinear systems identification model verification and validation and optimal design of experiments just to name a few In turn several issues and open ended problems arise within these methods including for instance use of higher order information in establishing parameter estimates establishing metrics for model credibility and extending experiment design to the dynamic situation The material covered in this book is aimed at allowing easier development and full use of detailed and high fidelity models Potential applications of these techniques in all engineering disciplines are abundant including

applications in chemical kinetics and reaction mechanism elucidation polymer reaction engineering and physical properties estimation On the academic side the book will serve to generate research ideas Contains wide coverage of statistical methods applied to process modelling Serves as a recent compilation of dynamic model building tools Presents several examples of applying advanced statistical and modelling methods to real process systems problems

Introduction to Software for Chemical Engineers, Second Edition Mariano Martín Martín, 2019-06-06 The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems Introduction to Software for Chemical Engineers Second Edition provides a quick guide to the use of various computer packages for chemical engineering applications It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators CHEMCAD and ASPEN equation based modeling languages gProms optimization software such as GAMS and AIMS and specialized software like CFD or DEM codes The different packages are introduced and applied to solve typical problems in fluid mechanics heat and mass transfer mass and energy balances unit operations reactor engineering process and equipment design and control This new edition offers a wider view of packages including open source software such as R Python and Julia It also includes complete examples in ASPEN Plus adds ANSYS Fluent to CFD codes Lingo to the optimization packages and discusses Engineering Equation Solver It offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems Written by leading experts this book is a must have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software Its user friendly approach to simulation and optimization as well as its example based presentation of the software makes it a perfect teaching tool for both undergraduate and master levels

Reactive and Membrane-Assisted Separations Philip Lutze, Andrzej Górak, 2016-07-28 Process intensification aims for increasing efficiency and sustainability of bio chemical production processes This book presents strategies for improving fluid separation such as reactive distillation reactive absorption and membrane assisted separations The authors discuss computer simulation model development methodological approaches for synthesis and the design and scale up of final industrial processes

Introduction to Software for Chemical Engineers Mariano Martín Martín, 2014-07-01 The field of chemical engineering is in constant evolution and access to information technology is changing the way chemical engineering problems are addressed Inspired by the need for a user friendly chemical engineering text that demonstrates the real world applicability of different computer programs Introduction to Software for Chemical Engi

Product and Process Design Jan Harmsen, André B. de Haan, Pieter L. J. Swinkels, 2018-05-22 Product and Process Design Driving Innovation is a comprehensive textbook for students and industrial professionals It treats the combined design of innovative products and their innovative manufacturing processes providing specific methods for BSc MSc PDEng and PhD courses Students industrial innovators and managers are guided through all design steps in all

innovation stages discovery concept feasibility development detailed engineering and implementation to successfully obtain novel products and their novel processes The authors decades of innovation experience in industry as well as in teaching BSc MSc and post academic product and process design courses thereby including the latest design publications culminate in this book

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

Virtual Biorefinery Antonio Bonomi, Otavio Cavalett, Marcelo Pereira da Cunha, Marco A. P. Lima, 2015-12-09 This book presents a concise framework for assessing technical and sustainability impacts of existing biorefineries and provides a possible road map for development of novel biorefineries It offers a detailed integrated approach to evaluate the entire biomass production chain from the agricultural feedstock production and transportation to the industrial conversion and commercialization however the methods and concepts can be applied to almost any biomass alternative Chapters explore the main issues regarding biorefinery assessment including feedstock production and transportation modeling biofuels and green chemistry products as well as assessment of sustainability impacts This book is a valuable source of information to researchers in bioenergy green chemistry and sustainability fields It also provides a useful framework for government agencies investors and the energy industry to evaluate and predict the success of current and future biorefinery alternatives

Advanced Process Engineering Control Paul Serban Agachi, Mircea Vasile Cristea, Alexandra Ana Csavdari, Botond Szilagyi, 2023-11-20 As a mature topic in chemical engineering the book provides methods problems and tools used in process control engineering It discusses process knowledge sensor system technology actuators communication technology and logistics design and construction of control systems and their operation The knowledge goes beyond the traditional process engineering field by applying the same principles to biomedical processes energy production and management of environmental issues The book explains all the determinations in the chemical systems or process systems starting from the beginning of the processes going through the intricate interdependency of the process stages analyzing the hardware components of a control system and ending with the design of an appropriate control system for a process parameter or a whole process The book is first addressed to the students and graduates of the departments of Chemical or Process Engineering Second to the chemical or process engineers in all industries or research and development centers because they will notice the resemblance in approach from the system and control point of view between different fields which might seem far from each other but share the same control philosophy

28th European Symposium on Computer Aided Process Engineering Stefan Radl, Jiří Jaromír Klemeš, Petar Sabevarbanov, Thomas Wallek, 2018-06-26 28th European Symposium on Computer Aided Process Engineering Volume 43 contains the papers

presented at the 28th European Society of Computer Aided Process Engineering ESCAPE event held in Graz Austria June 10 13 2018 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 28th European Society of Computer Aided Process Engineering ESCAPE event

Handbook of Process Integration (PI) Jiří Jaromír Klemeš, 2013-07-31 Since its first development in the 1970s Process Integration PI has become an important methodology in achieving more energy efficient processes This pioneering handbook brings together the leading scientists and researchers currently contributing to PI development pooling their expertise and specialist knowledge to provide readers with a comprehensive and up to date guide to the latest PI research and applications After an introduction to the principles of PI the book reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems The book considers Heat Integration Mass Integration and Extended PI as well as a series of applications and case studies Chapters address not just operating and capital costs but also equipment design and operability issues through to buildings and supply chains With its distinguished editor and international team of expert contributors Handbook of Process Integration PI is a standard reference work for managers and researchers in all energy intensive industries as well as academics with an interest in them including those designing and managing oil refineries petrochemical and power plants as well as paper pulp steel waste food and drink processors This pioneering handbook provides a comprehensive and up to date guide to the latest process integration research and applications Reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems Chapters also address equipment design and operability issues through to buildings and supply chains

Optimization for Energy Systems and Supply Chains Viknesh Andiappan, Denny K S Ng, Santanu Bandyopadhyay, 2022-12-08 To curb the impacts of rising CO₂ emissions the Intergovernmental Panel on Climate Change report states that a net zero target needs to be achieved by the year 2055 Experts argue that this is a critical time to make important and accurate decisions Thus it is essential to have the right tools to efficiently plan and deploy future energy systems and supply chains Mathematical models can provide decision makers with the tools required to make well informed decisions relating to development of energy systems and supply chains This book provides an understanding of the various available energy systems the basics behind mathematical models the steps required to develop mathematical models and examples case studies where such models are applied Divided into two parts one covering basics for beginners and the other featuring contributed chapters offering illustrative examples this book Shows how mathematical models are applied to solve problems in energy systems and supply chains Provides fundamentals of the working principles of various energy systems and their technologies Offers basics of how to formulate and best practices for developing mathematical models topics not covered in other titles Features a wide range of case studies Teaches readers to develop their own mathematical models to make decisions on energy systems This book is

aimed at chemical process mechanical and energy engineers *Acting Principles of Nano-Scaled Matrix Additives for Composite Structures* Michael Sinapius, Gerhard Ziegmann, 2021-05-22 The book explores the effect of nanoscale matrix additives along the four levels of material formation particle resin interaction the influence of nanoparticles on the processability of the polymer the influence of nanoparticles on polymer curing and the influence of nanoparticles on the fiber plastic composite Fiber reinforced plastics have a significantly higher lightweight construction potential in components with a primary single or biaxial stress state compared to isotropic metals At the same time their insensitivity to corrosion and their advantageous fatigue properties can help to reduce maintenance costs Due to their outstanding specific mechanical properties they are among today's high performance lightweight construction materials These properties make them particularly attractive in the field of mobility However as soon as the matrix properties dominate the mechanical properties e.g. in the case of fibre parallel compressive strength significant weaknesses become apparent in the mechanical properties Here one approach is to significantly increase the matrix properties through nanoscale ceramic additives and at the same time to guarantee the processability of the resin Advanced Control of Chemical Processes 1994 D. Bonvin, 2014-05-23 This publication brings together the latest research findings in the key area of chemical process control including dynamic modelling and simulation modelling and model validation for application in linear and nonlinear model based control nonlinear model based predictive control and optimization to facilitate constrained real time optimization of chemical processes statistical control techniques major developments in the statistical interpretation of measured data to guide future research knowledge based v model based control the integration of theoretical aspects of control and optimization theory with more recent developments in artificial intelligence and computer science Integrated Distributed Intelligent Systems for Engineering Design Ming Rao, Qun Wang, Ji Zhou, 1996-11-15 Presents the philosophy methodology techniques and applications of IDIS for engineering design Looks at recent research and details a five step problem solving strategy of problem definition conceptual design parameter design design analysis and design evaluation Describes industrial applications of IDIS including the design of a mechanical transmission a heat exchanger network and a process control system For graduate courses on engineering design artificial intelligence and computer integrated manufacturing No index Annotation copyrighted by Book News Inc Portland OR *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 Integration of Process Design and Control* Panos Seferlis, Michael C.

Georgiadis, 2004-05-06 Traditionally process design and control system design are performed sequentially It is only recently displayed that a simultaneous approach to the design and control leads to significant economic benefits and improved dynamic performance during plant operation Extensive research in issues such as interactions of design and control analysis and design of plant wide control systems integrated methods for design and control has resulted in impressive advances and significant new technologies that have enriched the variety of instruments available for the design engineer in her endeavour to design and operate new processes The field of integrated process design and control has reached a maturity level that mingles the best from process knowledge and understanding and control theory on one side with the best from numerical analysis and optimisation on the other Direct implementation of integrated methods should soon become the mainstream design procedure Within this context *The Integration of Process Design and Control* bringing together the developments in a variety of topics related to the integrated design and control will be a real asset for design engineers practitioners and researchers Although the individual chapters reach a depth of analysis close to the frontier of current research status the structure of the book and the autonomous nature of the chapters make the book suitable for a newcomer in the area The book comprises four distinct parts Part A Process characterization and controllability analysis Part B Integrated process design and control Methods Part C Plant wide interactions of design and control Part D Integrated process design and control Extensions By the end of the book the reader will have developed a commanding comprehension of the main aspects of integrated design and control the ability to critically assess the key characteristics and elements related to the interactions between design and control and the capacity to implement the new technology in practice This book brings together the latest developments in a variety of topics related to integrated design and control It is a valuable asset for design engineers practitioners and researchers The structure of the book and the nature of its chapters also make it suitable for a newcomer to the field **Process Intensification** Mirko Skiborowski, Andrzej Górak, 2022-06-06 Process intensification aims for

increasing efficiency and sustainability of bio chemical 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 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

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