

Chemical Process Design Computer Aided Case Studies

Chemical Product Design: Towards a Perspective through Case Studies Ka M. Ng
2006-10-24 Chemical Product Design: Towards a Perspective through Case Studies provides a framework for chemical product design problems which are clearly defined together with different solution approaches. This book covers the latest methods and tools currently available in the field and discusses future challenges that the chemical industry is faced with. It focuses on important issues of chemical product design and provides a good overview on industrial chemical product design problems through case studies supplied by leading experts. The editors of Chemical Product Design teach chemical product design at graduate level courses and also serve as consultants for various

chemical companies. They have also developed experimental techniques for chemical product design as well as computer-aided design methods and tools. - Highlights important issues of chemical product design through case studies - Case studies supplied by leading experts in chemical product design - Provides a complete framework for chemical product design *Applications in Design and Simulation of Sustainable Chemical Processes* Alexandre C. Dimian 2019-08-08 Applications in Design and Simulation of Sustainable Chemical Processes addresses the challenging applications in designing eco-friendly but efficient chemical processes, including recent advances in chemistry and catalysis that rely on renewable raw materials. Grounded in the fundamental knowledge of chemistry, thermodynamics,

chemical reaction engineering and unit operations, this book is an indispensable resource for developing and designing innovating chemical processes by employing computer simulations as an efficient conceptual tool. Targeted to graduate and post graduate students in chemical engineering, as well as to professionals, the book aims to advance their skills in process innovation and conceptual design. The work completes the book *Integrated Design and Simulation of Chemical Processes* by Elsevier (2014) authored by the same team. - Includes comprehensive case studies of innovative processes based on renewable raw materials - Outlines Process Systems Engineering approach with emphasis on systematic design methods - Employs steady-state and dynamic process simulation as problem analysis and flowsheet creation tool - Applies modern concepts, as process integration and intensification, for enhancing the sustainability

Chemical Process Design and Integration

Robin Smith 2016-08-02 Written by a highly regarded author with industrial and academic experience, this new edition of an established bestselling book provides practical guidance for students, researchers, and those in chemical engineering. The book includes a new section on sustainable energy, with sections on carbon capture and sequestration, as a result of increasing environmental awareness; and a companion website that includes problems, worked solutions, and Excel spreadsheets to enable students to carry out complex calculations.

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.

Sustainability of Products, Processes and Supply Chains 2015-04-30 Sustainability of Products, Processes and Supply Chains: Theory and Applications presents the recent theoretical developments and applications on the interface between sustainability and process systems engineering. It offers a platform for cutting-edge, holistic analyses of key challenges associated with computer-aided tools for incorporating sustainability principles and approaches into the design and operations of multi-scale process systems, ranging from molecular and products systems, to energy and chemical processes, and supply chains. - Presents recent theoretical developments and applications on the interface between sustainability engineering and process engineering - Offers cutting-edge, holistic

analyses of key challenges associated with computer-aided tools for incorporating sustainability principles and approaches into the design and operations of multi-scale process systems - Brings together the perspectives of leading researchers to stimulate innovative thinking in terms of sustainability

Lees' Loss Prevention in the Process

Industries Frank Lees 2005-01-10 Over the last three decades the process industries have grown very rapidly, with corresponding increases in the quantities of hazardous materials in process, storage or transport. Plants have become larger and are often situated in or close to densely populated areas. Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough, Bhopal, Chernobyl, Three Mile Island, the Phillips 66 incident, and Piper Alpha to name but a few. The field of Loss Prevention is, and continues to, be of supreme importance to countless companies, municipalities and governments around the

world, because of the trend for processing plants to become larger and often be situated in or close to densely populated areas, thus increasing the hazard of loss of life or property. This book is a detailed guidebook to defending against these, and many other, hazards. It could without exaggeration be referred to as the "bible" for the process industries. This is THE standard reference work for chemical and process engineering safety professionals. For years, it has been the most complete collection of information on the theory, practice, design elements, equipment, regulations and laws covering the field of process safety. An entire library of alternative books (and cross-referencing systems) would be needed to replace or improve upon it, but everything of importance to safety professionals, engineers and managers can be found in this all-encompassing reference instead. Frank Lees' world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working

under the guidance of one of the world's chief experts in this field. Sam Mannan is professor of chemical engineering at Texas A&M University, and heads the Mary Kay O'Connor Process Safety Center at Texas A&M. He received his MS and Ph.D. in chemical engineering from the University of Oklahoma, and joined the chemical engineering department at Texas A&M University as a professor in 1997. He has over 20 years of experience as an engineer, working both in industry and academia. New detail is added to chapters on fire safety, engineering, explosion hazards, analysis and suppression, and new appendices feature more recent disasters. The many thousands of references have been updated along with standards and codes of practice issued by authorities in the US, UK/Europe and internationally. In addition to all this, more regulatory relevance and case studies have been included in this edition. Written in a clear and concise style, Loss Prevention in the Process Industries covers traditional areas of

personal safety as well as the more technological aspects and thus provides balanced and in-depth coverage of the whole field of safety and loss prevention. * A must-have standard reference for chemical and process engineering safety professionals * The most complete collection of information on the theory, practice, design elements, equipment and laws that pertain to process safety * Only single work to provide everything; principles, practice, codes, standards, data and references needed by those practicing in the field

Fifth International Conference on Foundations of Computer-Aided Process Design

Michael F. Malone 2000 Looks at challenges for the future, including the broader challenge of extending design to include creating new value for a company, and a discussion of how emerging technologies, particularly increased computer speeds, may impact future design.

Product-Driven Process Design Edwin

Zondervan 2020-01-20 Product-driven process design - from molecule to enterprise provides process engineers and process engineering students with access to a modern and stimulating methodology to process and product design. Throughout the book the links between product design and process design become evident while the reader is guided step-by-step through the different stages of the intertwining product and process design activities. Both molecular and enterprise-wide considerations in design are introduced and addressed in detail. Several examples and case studies in emerging areas such as bio- and food-systems, pharmaceuticals and energy are discussed and presented. This book is an excellent guide and companion for undergraduate, graduate students as well as professional practitioners.

Chemical Engineering Dynamics, Includes CD-ROM John Ingham 2007 In this book, the modelling of dynamic chemical engineering processes is presented in a highly

understandable way using the unique combination of simplified fundamental theory and direct hands-on computer simulation. The mathematics is kept to a minimum, and yet the nearly 100 examples supplied on www.wiley-vch.de illustrate almost every aspect of chemical engineering science. Each example is described in detail, including the model equations. They are written in the modern user-friendly simulation language Berkeley Madonna, which can be run on both Windows PC and Power-Macintosh computers. Madonna solves models comprising many ordinary differential equations using very simple programming, including arrays. It is so powerful that the model parameters may be defined as "sliders", which allow the effect of their change on the model behavior to be seen almost immediately. Data may be included for curve fitting, and sensitivity or multiple runs may be performed. The results can be seen simultaneously on multiple-graph windows or by using overlays. The resultant

learning effect of this is tremendous. The examples can be varied to fit any real situation, and the suggested exercises provide practical guidance. The extensive experience of the authors, both in university teaching and international courses, is reflected in this well-balanced presentation, which is suitable for the teacher, the student, the chemist or the engineer. This book provides a greater understanding of the formulation and use of mass and energy balances for chemical engineering, in a most stimulating manner. This book is a third edition, which also includes biological, environmental and food process examples.

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.

Chemical Process Design Alexandre C. Dimian
2008-04-09 This practical how-to-do book deals with the design of sustainable chemical processes by means of systematic methods aided by computer simulation. Ample case studies illustrate generic creative issues, as well as the efficient use of simulation techniques, with each one standing for an important issue taken from practice. The didactic approach guides readers

from basic knowledge to mastering complex flow-sheets, starting with chemistry and thermodynamics, via process synthesis, efficient use of energy and waste minimization, right up to plant-wide control and process dynamics. The simulation results are compared with flow-sheets and performance indices of actual industrial licensed processes, while the complete input data for all the case studies is also provided, allowing readers to reproduce the results with their own simulators. For everyone interested in the design of innovative chemical processes.

Chemical Process Design and Integration

Robin Smith 2005 Market_Desc: · Professionals· Undergraduates Special Features: This timely volume:· Reflects the recent significant advances made in the process industries· Covers how environmental issues have affected chemical process design· Presented in an accessible, easy to understand way About The Book: This book deals with the design and integration of chemical processes, emphasizing the conceptual

issues that are fundamental to the creation of the process. Chemical process design requires the selection of a series of processing steps and their integration to form a complete manufacturing system. The text emphasizes both the design and selection of the steps as individual operations and their integration. Also, the process will normally operate as part of an integrated manufacturing site consisting of a number of processes serviced by a common utility system. The design of utility systems has been dealt with in the text so that the interactions between processes and the utility system and interactions between different processes through the utility system can be exploited to maximize the performance of the site as a whole.

Chemical Engineering Process Simulation

Dominic Foo 2022-09-29 Chemical Engineering Process Simulation, Second Edition guides users through chemical processes and unit operations using the main simulation software used in the

industrial sector. The book helps predict the characteristics of a process using mathematical models and computer-aided process simulation tools, as well as how to model and simulate process performance before detailed process design takes place. Content coverage includes steady-state and dynamic simulation, process design, control and optimization. In addition, readers will learn about the simulation of natural gas, biochemical, wastewater treatment and batch processes. - Provides an updated and expanded new edition that contains 60-70% new content - Guides readers through chemical processes and unit operations using the primary simulation software used in the industrial sector - Covers the fundamentals of process simulation, theory and advanced applications - Includes case studies of various difficulty levels for practice and for applying developed skills - Features step-by-step guides to using UniSim Design, SuperPro Designer, Symmetry, Aspen HYSYS and Aspen Plus for process simulation novices

Model Based Control Paul Serban Agachi
2006-11-10 Filling a gap in the literature for a practical approach to the topic, this book is unique in including a whole section of case studies presenting a wide range of applications from polymerization reactors and bioreactors, to distillation column and complex fluid catalytic cracking units. A section of general tuning guidelines of MPC is also present. These thus aid readers in facilitating the implementation of MPC in process engineering and automation. At the same time many theoretical, computational and implementation aspects of model-based control are explained, with a look at both linear and nonlinear model predictive control. Each chapter presents details related to the modeling of the process as well as the implementation of different model-based control approaches, and there is also a discussion of both the dynamic behaviour and the economics of industrial processes and plants. The book is unique in the broad coverage of different model based control

strategies and in the variety of applications presented. A special merit of the book is in the included library of dynamic models of several industrially relevant processes, which can be used by both the industrial and academic community to study and implement advanced control strategies. Zoltán K. Nagy received his PhD from Babes-Bolyai University of Cluj, where he worked as a lecturer until 2005. Before taking up his current appointment as a faculty member at Loughborough University, UK, he was NATO research fellow and visiting lecturer at the University of Illinois at Urbana-Champaign, and research associate at the University of Stuttgart, University of Heidelberg and ETH Zürich. His main research interest is in the model based control and optimization of chemical processes. He worked on industrial implementation of model-based control strategies with companies such as BASF and ABB, and has published over 80 papers in the field. Arpad Imre-Lucaci received his M.S. and

Ph.D. degrees in chemical engineering from Babes-Bolyai University of Cluj-Napoca in 1985 and 1999, respectively. Since 1988 he has worked in the Chemical Engineering Department of BBU Cluj-Napoca, Romania, and spent research stays at University of Stuttgart (1994) and ETH Zürich (in 2002 and 2003). His main research fields are mathematical modeling, simulation and optimization in process industries, on which he has published over 20 scientific papers. Cristea Vasile Mircea graduated the Faculty of Electrotechnics, Romania, with specialization on process control and computer science and holds a Ph.D. degree in process control. After 8 years spent in industry he is at present Associate Professor at Babes-Bolyai University, Cluj-Napoca; his interests lie in systems theory, chemical process control, advanced process control, data acquisition and control, linear and nonlinear model based predictive control, and fuzzy control. He was director of CNCSIS Projects and

has published 3 books as well as over 55 scientific papers. Professor Paul Serban Agachi graduated in 1970 in Control Engineering at the Politehnica University of Bucharest. Obtained his Ph.D. in Chemical Engineering from the University Petroleum & Gas Ploiesti, Romania. Professional experience: design engineer, system analyst, researcher in fuel cells, process modeling, optimization and control. At present, professor of Process Control at the Department of Chemical Engineering of Babes-Bolyai University, Cluj-Napoca and member of the Academy of Technical Sciences of Romania. He has been visiting associate at California Institute of Technology, invited professor at Eötvös Lorand University, UNESCO Higher Education consultant. He has published 8 books and 96 scientific papers.

Handbook for Chemical Process Industries

Himanshu J Patel 2023-10-06 Chemical processing industry plays a pivotal role in the economy of a country, as chemicals are required

in every sphere of our lives. This book covers chemical processing of dyes, pigments, drugs and pharmaceutical products, fermented products, agrochemicals, explosives, polymers, Period II and III chemicals, chemicals, sugar, coatings, starches, soaps and detergents, paper, pulp, glass, and cement. It includes sources of natural materials, collection process, purification, and extraction of different chemicals from natural materials like petroleum, coal and ores from the Earth. It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials. The book covers both traditional and modern sectors of the chemical processing industry. It provides knowledge on the properties of the chemical and manufacturing process (such as raw materials, chemical reactions, quantitative requirement, flow sheet diagram, procedure) and its uses. The book is based on the author's expertise and has been developed with an awareness of the quantitative requirement for manufacturing

chemicals. Data has been collected from industry, thus it will be useful to industry personnel, research groups, academicians and institutional organizations.

Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydari 2019-01-23 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software. A comprehensive and practical resource, the text uses both Aspen Plus and Aspen Hysys simulation software. The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys. The text reviews the design and simulation of individual simple unit operations

that includes a mathematical model of each unit operation such as reactors, separators, and heat exchangers. The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used. In addition, to aid in comprehension, solutions to examples of real problems are included. The final section covers plant design and simulation of processes using nonconventional components. This important resource: Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real-world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids, oil blends, polymers and electrolytes Presents examples that are solved using a new version of Aspen software, ASPEN One 9 Written

for students and academics in the field of process design, Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software.

Energy Systems Engineering 2008-10-13

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.

The Role of Empirical Studies in Understanding and Supporting Engineering Design

Eswaran Subrahmanian 2004 This book contains the proceedings from a 2002 workshop on engineering design, under the general editorship of Eswaran Subrahmanian, from Carnegie Mellon University. Topics include: Case studies on knowledge collection & shgaring the design process. Collaborative design processes. Empirical studies in engineering design. Three dimensions of the design process. Innovative tools for design. Industrial studies. Architectural design. Team interaction space. Sociotechnical approach. Prototypes & boundary objects. Is there a future for design thinking research? The user-designer confrontation.

Computers in Chemical Engineering Education Brice Carnahan 1996 Very Good, No Highlights or Markup, all pages are intact.
Computer-aided Chemical Process Design Tetsuo Maejima 1970

Chemical Process Design Computer Aided Case Studies

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