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Chemical Process Design

Computer-Aided Case Studies



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John Ingham



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Chemical Process Design Alexandre C. Dimian, Costin Sorin Bildea, 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

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

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 Product Design: Towards a Perspective through Case Studies Ka M. Ng, Rafiqul Gani, Kim Dam-Johansen, 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

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

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

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

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 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 principles practice codes standards data and references needed by those practicing in the field

Foundations of Computer-aided Chemical Process Design ,1981 **The Art of Chemical Process Design** G. L. Wells,L. M. Rose,1986 Illustrating all aspects of chemical process design this book demonstrates process synthesis material and heat balancing by manual and computerised methods the use of flowsheeting programs and their construction flowsheet development plant safety process economics and project engineering The reader is introduced to each of the key areas and is given further information to follow these up The process is developed as a whole entity with appropriate partitioning of certain tasks In recent years there has been increased activity in process synthesis particularly in the development of heat exchanger networks and distillation trains Various chapters describe and develop these and other areas of interest In particular note is made of the need to select appropriate unit operations for given process tasks Traditional manual methods of material and heat balancing introduce the computerised methods used in flowsheeting programs Plant safety continues to generate professional and public interest as catastrophes continue to occur The recent developments in this area are described **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. *Applications in Design and Simulation of Sustainable Chemical Processes* Alexandre C. Dimian, Costin Sorin Bildea, Anton A. Kiss, 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. **Computer-aided Chemical Process Design** Tetsuo Maejima, 1970. [Product-Driven Process Design](#) Edwin Zondervan, Cristhian Almeida-Rivera, Kyle Vincent Camarda, 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 *Computers in Chemical Engineering Education* Brice Carnahan,1996 Very Good No Highlights or Markup all pages are intact 23 European Symposium on Computer Aided Process Engineering Adama Ouattara,Luc Pibouleau,Catherine Azzaro-Pantel,Serge Domenech,2013-06-10 The well known benchmark process for hydrodealkylation of toluene HDA to produce benzene is revisited in a multi objective approach to identify environmentally friendly and cost effective solutions Some guidelines to develop an eco design framework for chemical processes involving multiple criteria to be satisfied simultaneously are proposed based on simulation optimization multiple choice decision making procedures and life cycle assessment Two studies related to the selection of the primary energy source either fuel oil or natural gas for the utility production system UPS of the HDA process are conducted In each case a multi objective optimization problem involving the total annual cost of the process and five environmental burdens is carried out **Fifth International Conference on Foundations of Computer-Aided Process Design** Michael F. Malone,James A. Trainham,Brice Carnahan,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 **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 Zolt n 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 Zurich 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 Zurich 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 E t v s Lorand University UNESCO Higher Education consultant He has published 8 books and 96 scientific papers

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

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