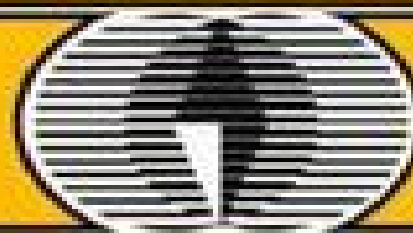


Lorenz T. Biegler/ Ignacio E. Grossmann/ Arthur W. Westerberg

Systematic Methods of Chemical Process Design

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in the Physical and Chemical
Engineering Sciences



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**Lorenz T. Biegler, Ignacio E.
Grossmann, Arthur W. Westerberg**



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Powerfuels Nils Bullerdiek, Ulf Neuling, Martin Kaltschmitt, 2024-12-05 Powerfuels are the subject of intense and often contentious current discussions within industry research politics as well as the overall society. These discussions primarily revolve around the practical and technical feasibility of power-to-X processes and applications, their economic viability, the respective environmental benefits, the contribution to climate protection as well as the social acceptability. Thus, the primary aim of this book is to provide a comprehensive overview of various aspects, diverse considerations and different perspectives regarding the future role and utilization of power-to-X pathways on a global scale. This encompasses the challenge of sourcing necessary feedstocks, feedstock options, their conversion into different products and product groups, exploring the possibilities of using these electricity-based fuels, hydrocarbons in various markets and establishing suitable framework conditions for viable and sustainable markets in the years to come. These objectives are achieved through a collection of papers contributed by experts actively engaged in various fields related to power-to-X. *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 vs. model-based control, the integration of theoretical aspects of control and optimization theory with more recent developments in artificial intelligence and computer science. Computer and Information Science Applications in Bioprocess Engineering A.R. Moreira, Kimberlee K. Wallace, 2012-12-06 Biotechnology has been labelled as one of the key technologies of the last two decades of the 20th Century, offering boundless solutions to problems ranging from food and agricultural production to pharmaceutical and medical applications as well as environmental and bioremediation problems. Biological processes, however, are complex and the prevailing mechanisms are either unknown or poorly understood. This means that adequate techniques for data acquisition and analysis leading to appropriate modeling and simulation packages that can be superimposed on the engineering principles need to be routine tools for future biotechnologists. The present volume presents a masterly summary of the most recent work in the field, covering instrumentation systems, enzyme technology, environmental biotechnology, food applications and metabolic engineering.

Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB Michael B. Cutlip, Mordechai Shacham, 2008 Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel and MATLAB Second Edition is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages: POLYMATH, Microsoft Excel and MATLAB. Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions.

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Material And Energy Balances For Engineers And Environmentalists Colin William Oloman, 2009-05-21

Material and energy balances are fundamental to many engineering disciplines and have a major role in decisions related to sustainable development. This text, which covers the substance of corresponding undergraduate courses, presents the balance concepts and calculations in a format accessible to students, engineering professionals and others who are concerned with the material and energy future of our society. Following a review of the basic science and economics, the text focuses on material and energy accounting in batch and continuous operations, with emphasis on generic process units, flow sheets, stream tables and spreadsheet calculations. There is a unified approach to reactive and non-reactive energy balance calculations, plus chapters dedicated to the general balance equation and simultaneous material and energy balances. Seventy worked examples show the elements of process balances and connect them with the material and energy concerns of the 21st century.

Process Modelling and Simulation César de Prada, Constantinos Pantelides, José Luis Pitarch, 2019-09-23

Since process models are nowadays ubiquitous in many applications, the challenges and alternatives related to their development, validation and efficient use have become more apparent. In addition, the massive amounts of both offline and online data available today open the door for new applications and solutions. However, transforming data into useful models and information in the context of the process industry or of bio

systems requires specific approaches and considerations such as new modelling methodologies incorporating the complex stochastic hybrid and distributed nature of many processes in particular. The same can be said about the tools and software environments used to describe code and solve such models for their further exploitation. Going well beyond mere simulation tools, these advanced tools offer a software suite built around the models facilitating tasks such as experiment design, parameter estimation, model initialization, validation, analysis, size reduction, discretization, optimization, distributed computation, co-simulation, etc. This Special Issue collects novel developments in these topics in order to address the challenges brought by the use of models in their different facets and to reflect state of the art developments in methods, tools and industrial applications.

Fast Numerical Methods for Mixed-Integer Nonlinear Model-Predictive Control Christian Kirches, 2011-11-23. Christian Kirches develops a fast numerical algorithm of wide applicability that efficiently solves mixed integer nonlinear optimal control problems. He uses convexification and relaxation techniques to obtain computationally tractable reformulations for which feasibility and optimality certificates can be given even after discretization and rounding.

Nonlinear Programming Lorenz T. Biegler, 2010-01-01. This book addresses modern nonlinear programming (NLP) concepts and algorithms especially as they apply to challenging applications in chemical process engineering. The author provides a firm grounding in fundamental NLP properties and algorithms and relates them to real world problem classes in process optimization, thus making the material understandable and useful to chemical engineers and experts in mathematical optimization.

European Symposium on Computer Aided Process Engineering - 10 Sauro Pierucci, 2000-05-10. This book includes papers presented at ESCAPE 10, the 10th European Symposium on Computer Aided Process Engineering held in Florence, Italy, 7-10th May 2000. The scientific program reflected two complementary strategic objectives of the Computer Aided Process Engineering (CAPE) Working Party: one checked the status of historically consolidated topics by means of their industrial application and their emerging issues, while the other was addressed to opening new windows to the CAPE audience by inviting adjacent Working Parties to co-operate in the creation of the technical program. The former CAPE strategic objective was covered by the topics Numerical Methods, Process Design and Synthesis, Dynamics Control, Process Modeling, Simulation and Optimization. The latter CAPE strategic objective derived from the European Federation of Chemical Engineering (EFCE) promotion of scientific activities which autonomously and transversely work across the Working Parties' terms of references. These activities enhance the exchange of the know-how and knowledge acquired by different Working Parties in homologous fields. They also aim to discover complementary facets useful to the dissemination of tools and of novel procedures. As a consequence, the Working Parties Environmental Protection, Loss Prevention and Safety Promotion and Multiphase Fluid Flow were invited to assist in the organization of sessions in the area of A Process Integrated Approach for Environmental Benefit, Loss Prevention and Safety. Computational Fluid Dynamics. A total of 473 abstracts from all over the world were evaluated by the International Scientific Committee. Out of them, 197 have been finally selected for the

presentation and reported into this book Their authors come from thirty different countries The selection of the papers was carried out by twenty eight international reviewers These proceedings will be a major reference document to the scientific and industrial community and will contribute to the progress in Computer Aided Process Engineering **Advanced Control of Chemical Processes** ,1991 Chemical Engineering Miguel A. Galan,Eva Martin del Valle,2005-10-31 Unlike extensive major reference works or handbooks Chemical Engineering Trends and Developments provides readers with a ready reference to latest techniques in selected areas of chemical engineering where research is and will be focused in the future These areas are bioseparations particle science and design nanotechnology and reaction engineering The aim of the book is to provide academic and R D researchers with an overview of the main areas of technical development and how these techniques can be applied Each chapter focuses on a technique plus a selection of applications or examples of where the technique could be applied **Advances in Chemical Engineering** ,1992-09-08 Advances in Chemical Engineering

Systematic Methods of Chemical Process Design Lorenz T. Biegler, Ignacio E. Grossmann, Arthur W. Westerberg, 1997 Over the last 20 years fundamental design concepts and advanced computer modeling have revolutionized process design for chemical engineering Team work and creative problem solving are still the building blocks of successful design but new design concepts and novel mathematical programming models based on computer based tools have taken out much of the guess work This book presents the new revolutionary knowledge taking a systematic approach to design at all levels

Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations K. E. Brenan, S. L. Campbell, L. R. Petzold, 1996-01-01 This book describes some of the places where differential algebraic equations DAE s occur

Modelling, Simulation, and Control of Hydrometallurgical Processes George Pan Demopoulos, Metallurgical Society of CIM. Hydrometallurgy Section, Metallurgical Society of CIM. Computer Applications Section, 1993

Foundations of Computer Aided Process Operations G. V. Reklaitis, H. D. Spriggs, 1987 The objectives of the conference were to define and discuss the problems of plant operations report on the development and application of computing and computation tools and techniques for solving these problems and bring together leading academic and industrial representatives to promote increased future interaction and cooperation in defining and solving operations problems The participants came from 15 different countries approximately 40% were from academic institutions 40% from operating companies and 20% from engineering software and other companies serving the process industries This diversity of backgrounds and opinions served to make the conference vital and informative and is reflected in this proceedings volume

Conceptual Design of Chemical Processes James Merrill Douglas, 1988 This text explains the concepts behind process design It uses a case study approach guiding readers through realistic design problems and referring back to these cases at the end of each chapter Throughout the author uses shortcut techniques that allow engineers to obtain the whole focus for a design in a very short period generally less than two days *Intelligent Processing of Materials* Haydn N. G. Wadley, W.

Eugene Eckhart,1990 **Dynamic Process Modeling** ,2013-10-02 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 **Chemical Engineering Education** ,1999

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