

Lorenz T. Hegetschler / Ignazio E. Grossmann / Anders W. Westerberg

# Systematic Methods of Chemical Process Design

Scientific and Industrial Series  
for the Physical and Chemical  
Engineering Sciences



# Systematic Methods Of Chemical Process Design

**Tyler Hicks**

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## **Systematic Methods Of Chemical Process Design:**

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

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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

Chemical Process Design and Integration Robin Smith, 2016-09-26 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

**22nd European Symposium on Computer Aided Process Engineering**, 2012-12-10 Computer aided process engineering CAPE plays a key design and operations role in the process industries This conference features presentations by CAPE specialists and addresses strategic planning supply chain issues and the increasingly important area of sustainability audits Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development environmental social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals Contributions from the international community of researchers and engineers using computing based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges

**Foundations of Computer-aided Chemical Process Design: Sparse matrices, nonlinear programming, differential equations, software for process flowsheets** Richard S. H. Mah, 1981      **Optimization for Energy Systems and Supply Chains** Viknesh Andiappan, Denny K S Ng, Santanu Bandyopadhyay, 2022-12-08 To curb the

impacts of rising CO<sub>2</sub> 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

Analysis, Synthesis, and Design of Chemical Processes  
Richard Turton,2012 Process design is the focal point of chemical engineering practice the creative activity through which engineers continuously improve facility operations to create products that enhance life Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills so they can analyze both the big picture and minute details and know when to focus on each Through three previous editions this book has established itself as the leading resource for students seeking to apply what they ve learned in real world open ended process problems The authors help students hone and synthesize their design skills through expert coverage of preliminary equipment sizing flowsheet optimization economic evaluation operation and control simulation and other key topics This new Fourth Edition is extensively updated to reflect new technologies simulation techniques and process control strategies and to include new pedagogical features including concise summaries and end of chapter lists of skills and knowledge Pub desc

**Chemical Engineering Design** Gavin Towler,Ray Sinnott,2008 Product Description Chemical Engineering Design is a complete course text for students of chemical engineering Written for the Senior Design Course and also suitable for introduction to chemical engineering courses it covers the basics of unit operations and the latest aspects of process design equipment selection plant and operating economics safety and loss prevention It is a textbook that students will want to keep through their undergraduate education and on into their professional lives Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses Teaches commercial engineering tools for simulation and costing Comprehensive coverage of unit operations design and economics Strong emphasis on HS 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for

downloading from the companion website Extensive instructor resources include lecture slides image bank and solutions manual for adopting instructors For further information <http://textbooks.elsevier.com> **Process Dynamics** B. Wayne Bequette,1998 Suitable as a text for Chemical Process Dynamics or Introductory Chemical Process Control courses at the junior senior level This book aims to provide an introduction to the modeling analysis and simulation of the dynamic behavior of chemical processes *Process Control Modules* Francis J. Doyle,Edward P. Gatzke,Robert Stephen Parker,2000 CD ROM includes all MATLAB Simulink files used throughout the book Page 4 of cover **Standard Handbook of Engineering Calculations** Tyler Hicks,2005 Now substantially revised and improved this invaluable handbook provides engineers and technicians with more than 5 000 direct and related calculations for solving day to day problems quickly and easily The book covers 13 disciplines including civil architectural mechanical electrical electronics control marine and nuclear engineering enabling readers to become familiar with procedures in fields apart from their own The third edition features a major new section on environmental engineering plus increased emphasis on environmental factors in the other 12 disciplines

Chemical Process Control-VI American Institute of Chemical Engineers,2002 *Plant Design and Economics for Chemical Engineers, Fifth Edition (POD)* Max S. Peters,Klaus D. Timmerhaus,Ronald E. West,2026-01-09 An essential one stop guide to chemical process design and evaluation The fifth edition of Plant Design and Economics for Chemical Engineers is a major revision of the popular fourth edition There are new chapters on process synthesis computer aided design and design of chemical reactors A traditionally strong feature of the text economic analysis has been revamped and updated Another strength equipment sizing and cost estimation is updated and expanded as well These improvements also reflect changes in equipment availability The numerous real examples throughout the book include computer or hand solutions and often both There is a new increased emphasis on computer use in design economic evaluation and optimization Concepts strategies and approaches to computer use are featured These concepts are not tied to particular software programs and therefore apply to wide a range of applications software of both current and future release Chemical Process Control-VI James Blake Rawlings,Babatunde Ayodeji Ogunnaike,John W. Eaton,2002 Electronic version of the proceedings and papers of the conference along with an ISO9660 file system with Rock Ridge attributes *AIChE Symposium Series* American Institute of Chemical Engineers,2000 On the Design of Chemical Processes with Improved Controllability Characteristics F. Michael Meeuse,2002 **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 Students and professional engineers will appreciate the ease with which problems can be entered into

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General Topics and Subject Areas Organized by Chapter

Introduction to Problem Solving with Mathematical Software Packages Basic Principles and Calculations Regression and Correlation of Data Introduction to Problem Solving with Excel Introduction to Problem Solving with MATLAB Advanced Problem Solving Techniques Thermodynamics Fluid Mechanics Heat Transfer Mass Transfer Chemical Reaction Engineering Phase Equilibrium and Distillation Process Dynamics and Control Biochemical Engineering Practical Aspects of Problem Solving Capabilities Simultaneous Linear Equations Simultaneous Nonlinear Equations Linear Multiple Linear and Nonlinear Regressions with Statistical Analyses Partial Differential Equations Using the Numerical Method of Lines Curve Fitting by Polynomials with Statistical Analysis Simultaneous Ordinary Differential Equations Including Problems Involving Stiff Systems Differential Algebraic Equations and Parameter Estimation in Systems of Ordinary Differential Equations

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*ASME Technical Papers*, 2001

[Fluid Mechanics for Chemical Engineers](#) James O. Wilkes, Stacy G. Bike, 1999 Designed for undergraduate and first year courses in Fluid Mechanics this text consists of two parts four chapters on macroscopic or relatively large scale phenomena followed by eight chapters on microscopic or relatively small scale phenomena

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