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Parametric Sensitivity in Chemical Systems



A. Varma, M. Morbidelli, and H. Wu

Parametric Sensitivity In Chemical Systems Cambridge Series In Chemical Engineering

Lyle Albright



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Parametric Sensitivity in Chemical Systems Arvind Varma, Massimo Morbidelli, Hua Wu, 2005-09-15 The behavior of a chemical system is affected by many physicochemical parameters The sensitivity of the system s behavior to changes in parameters is known as parametric sensitivity When a system operates in a parametrically sensitive region its performance becomes unreliable and changes sharply with small variations in parameters Thus it is of great value to those who design and operate chemical systems to be able to analyze and predict their sensitivity behavior This book is the first to provide a thorough treatment of the concept of parametric sensitivity and the mathematical tool it generated sensitivity analysis The emphasis is on applications to real situations The book begins with definitions of various sensitivity indices and describes the numerical techniques most commonly used for their evaluation Extensively illustrated chapters discuss sensitivity analysis in a variety of chemical reactors batch tubular continuous flow fixed bed and in combustion systems mechanistic studies air pollution and metabolic processes Seniors and graduate students in various fields of science and engineering researchers and practicing engineers will welcome this valuable resource

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Numerical Methods with Chemical Engineering Applications Kevin D. Dorfman, Prodromos Daoutidis, 2017-01-11 This undergraduate textbook integrates the teaching of numerical methods and programming with problems from core chemical engineering subjects

Mathematical Modelling and Simulation in Chemical Engineering M. Chidambaram, 2018-03-09 An easy to understand guide covering key principles of mathematical modelling and simulation in chemical engineering

Chemical Engineering Morton Denn, 2011-09-30 Chemical engineering is the field of applied science that employs physical chemical and biological rate processes for the betterment of humanity This opening sentence of Chapter 1 has been the underlying paradigm of chemical engineering Chemical Engineering An Introduction is designed to enable the student to explore the activities in which a modern chemical engineer is involved by focusing on mass

and energy balances in liquid phase processes Problems explored include the design of a feedback level controller membrane separation hemodialysis optimal design of a process with chemical reaction and separation washout in a bioreactor kinetic and mass transfer limits in a two phase reactor and the use of the membrane reactor to overcome equilibrium limits on conversion Mathematics is employed as a language at the most elementary level Professor Morton M Denn incorporates design meaningfully the design and analysis problems are realistic in format and scope

Thermodynamics with Chemical Engineering Applications Elias I. Franses, 2014-08-25 Master the principles of thermodynamics with this comprehensive undergraduate textbook carefully developed to provide students of chemical engineering and chemistry with a deep and intuitive understanding of the practical applications of these fundamental ideas and principles Logical and lucid explanations introduce core thermodynamic concepts in the context of their measurement and experimental origin giving students a thorough understanding of how theoretical concepts apply to practical situations A broad range of real world applications relate key topics to contemporary issues such as energy efficiency environmental engineering and climate change and further reinforce students understanding of the core material This is a carefully organized highly pedagogical treatment including over 500 open ended study questions for discussion over 150 varied homework problems clear and objective standards for measuring student progress and a password protected solution manual for instructors

Albright's Chemical Engineering Handbook Lyle Albright, 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering Albright s Chemical Engineering Handbook represents a reliable source of updated methods applications and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations Well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties Each chapter provides a clear review of basic information case examples and references to additional more in depth information They explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and biochemical engineering The final chapters cover aspects of patents and intellectual property practical communication and ethical considerations that are most relevant to engineers From fundamentals to plant operations Albright s Chemical Engineering Handbook offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications This handbook will serve the needs of practicing professionals as well as students preparing to enter the field

Chemical Reaction Engineering L.K. Doraiswamy, Deniz Uner, 2013-07-15 Filling a longstanding gap for graduate courses in the field Chemical Reaction Engineering Beyond the Fundamentals covers basic concepts as well as complexities of chemical reaction engineering including novel techniques for process intensification The book is divided into three parts Fundamentals Revisited Building on Fundamentals and Beyond the Fundamentals Part I Fundamentals Revisited

reviews the salient features of an undergraduate course introducing concepts essential to reactor design such as mixing unsteady state operations multiple steady states and complex reactions Part II Building on Fundamentals is devoted to skill building particularly in the area of catalysis and catalytic reactions It covers chemical thermodynamics emphasizing the thermodynamics of adsorption and complex reactions the fundamentals of chemical kinetics with special emphasis on microkinetic analysis and heat and mass transfer effects in catalysis including transport between phases transfer across interfaces and effects of external heat and mass transfer It also contains a chapter that provides readers with tools for making accurate kinetic measurements and analyzing the data obtained Part III Beyond the Fundamentals presents material not commonly covered in textbooks addressing aspects of reactors involving more than one phase It discusses solid catalyzed fluid phase reactions in fixed bed and fluidized bed reactors gas solid noncatalytic reactions reactions involving at least one liquid phase gas liquid and liquid liquid and multiphase reactions This section also describes membrane assisted reactor engineering combo reactors homogeneous catalysis and phase transfer catalysis The final chapter provides a perspective on future trends in reaction engineering

Thermal Safety of Chemical Processes Francis Stoessel, 2008-06-25 Based on the author's many years of experience in practicing safety assessment in industry and teaching students or professionals in this area the topic of this book is seldom found on university curricula and many professionals do not have the knowledge required to interpret thermal data in terms of risks For this reason Francis Stoessel adopts a unique systematic how to do approach Each chapter begins with a case history illustrating the topic and presenting the lessons learned from the incident In so doing he analyzes a goldmine of numerous examples stemming from industrial practice additionally providing a series of problems or case studies at the end of each chapter Divided into three distinct sections part one looks at the general aspects of thermal process safety while Part 2 deals with mastering exothermal reactions The final section discusses the avoidance of secondary reactions including heat accumulation and thermal confinement

Control and Monitoring of Chemical Batch Reactors Fabrizio Caccavale, Mario Iamarino, Francesco Pierri, Vincenzo Tufano, 2010-12-07 The Chemical Batch Reactor is aimed at tackling the above problems from a blending of academic and industrial perspectives Advanced solutions i.e. those based on recent research results to the four fundamental problems of modeling identification control and fault diagnosis for batch processes are developed in detail in four distinct chapters In each chapter a general overview of foundational concepts is also given together with a review of recent and classical literature on the various subjects To provide a unitary treatment of the different topics and give a firm link to the underlying practical applications a single case study is developed as the book progresses a batch process of industrial interest i.e. the phenol formaldehyde reaction for the production of phenolic resins is adopted to test the various techniques developed In this way a roadmap of the solutions to fundamental problems ranging from the early stages of the production process to the complete design of control and diagnosis systems is provided for both industrial practitioners and academic researchers

Colloidal Suspension Rheology

Jan Mewis, Norman J. Wagner, 2012 Presented in an accessible and introductory manner this is the first book devoted to the comprehensive study of colloidal suspensions

Distillation Theory and its Application to Optimal Design of Separation Units F. B. Petlyuk, 2004-10-18 Originally published in 2004 Distillation Theory and Its Application to Optimal Design of Separation Units presents a clear multidimensional geometric representation of distillation theory that is valid for all distillation column types splits and mixtures This representation answers such fundamental questions as what are the feasible separation products for a given mixture What minimum power is required to separate a given mixture What minimum number of trays is necessary to separate a given mixture at a fixed power input This book is intended for students and specialists in the design and operation of separation units in the chemical pharmaceutical food wood petrochemical oil refining and natural gas industries and for software designers *Advances in Chemical Engineering* Guy B.

Marin, 2005-10-24 The theme of the present volume Multiscale Analysis has been introduced about a decade ago and is now reaching a stage where a first balance can be made and further research directions should be decided Contributions have been carefully selected to ensure the reader will not be confronted with quantum mechanics at one side of the spectrum nor with chemical plants or even the environment on the other side Maintaining a strong connection with reality i.e. experimental data was another selection criterion Experimental validation remains the corner stone of any theoretical development and very powerful experimental techniques are emerging Areas covered include discussing in depth an important example of experimental techniques Coming from the medical world Magnetic Resonance techniques can now provide even quantitative answers to problems our community is faced with The modeling issue is discussed further Finally the limitations of the classic reactor engineering models are outlined Original reviews Leading chemical engineers as authors Update on biomaterials use Novel subject on use of biomaterials in drug delivery and gene therapy Mathematical modeling **Product and Process Design**

Jan Harmsen, André B. de Haan, Pieter L. J. Swinkels, 2024-05-20 Product and process design driving sustainable innovation is the 2nd edition of a comprehensive textbook for product and process design courses at BSc MSc EngD and PhD level It covers both heuristics based design methods as well as systems engineering approaches It contains specific methods to co design products and processes so that both designs are better than when these designs are made separately This integrated combination makes the book unique For making designs that contribute to the Sustainable Development Goals of the United Nations specific methods are provided for the People Planet and Prosperity dimensions This second edition of the book includes examples and exercises for each design method which makes it very suitable for teaching purposes The book is furthermore of interest to industrial process and product developers for many industry branches as it provides methods for design modelling and experimental validation for each innovation stage It is also very useful for R D managers as it provides guidelines for essential activities in each innovation stage discovery concept feasibility development detailed engineering leading to successful implementations of new processes and new products **Computational Models**

for Polydisperse Particulate and Multiphase Systems Daniele L. Marchisio, Rodney O. Fox, 2013-03-28 All inclusive introduction to polydisperse multiphase flows linking theory to practice through numerous real world examples and MATLAB scripts for key algorithms

Process Control Pao C. Chau, 2002-08-26 An introductory 2002 textbook Process Control covers the most essential aspects of process control suitable for a two semester course While classical techniques are discussed also included is a discussion of state space modeling and control a modern control topic lacking in most introductory texts MATLAB a popular engineering software package is employed as a powerful yet approachable computational tool Text examples demonstrate how root locus Bode plots and time domain simulations can be integrated to tackle a control problem Classical control and state space designs are compared Despite the reliance on MATLAB theory and analysis of process control are well presented creating a well rounded pedagogical text Each chapter concludes with problem sets to which hints or solutions are provided A web site provides excellent support in the way of MATLAB outputs of text examples and MATLAB sessions references and supplementary notes Students and professionals will find it a useful text and reference

Nutritional Care of the Patient with Gastrointestinal Disease Alan L Buchman, 2015-08-06 This evidence based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease Chapters cover nutrition assessment macro and micronutrient absorption malabsorption food allergies prebiotics and dietary fiber probiotics and intestinal microflora nutrition and GI cancer nutritional management of reflux nutrition in IBS and IBD nutrition in acute and chronic pancreatitis enteral nutrition parenteral nutrition medical and endoscopic therapy of obesity surgical therapy of obesity pharmacologic nutrition and nutritional counseling

Polymer Melt Processing Morton M. Denn, 2008-08-04 Most of the shaping in the manufacture of polymeric objects is carried out in the melt state as it is a substantial part of the physical property development Melt processing involves an interplay between fluid mechanics and heat transfer in rheologically complex liquids and taken as a whole it is a nice example of the importance of coupled transport processes This book is on the underlying foundations of polymer melt processing which can be derived from relatively straightforward ideas in fluid mechanics and heat transfer the level is that of an advanced undergraduate or beginning graduate course and the material can serve as the text for a course in polymer processing or for a second course in transport processes

Mass and Heat Transfer T. W. Fraser Russell, Anne Skaja Robinson, Norman J. Wagner, 2008-02-11 This text allows instructors to teach a course on heat and mass transfer that will equip students with the pragmatic applied skills required by the modern chemical industry This new approach is a combined presentation of heat and mass transfer maintaining mathematical rigor while keeping mathematical analysis to a minimum This allows students to develop a strong conceptual understanding and teaches them how to become proficient in engineering analysis of mass contactors and heat exchangers and the transport theory used as a basis for determining how critical coefficients depend upon physical properties and fluid motions Students will first study the engineering analysis and

design of equipment important in experiments and for the processing of material at the commercial scale The second part of the book presents the fundamentals of transport phenomena relevant to these applications A complete teaching package includes a comprehensive instructor s guide exercises case studies and project assignments Design and Processing of Particulate Products Jim Litster, 2016-10-20 With this unique and comprehensive text readers will gain the quantitative tools needed to engineer the particulate processes and products that are ubiquitous in modern life Covering a series of particle and particulate delivery form design processes with emphasis on design and operation to control particle attributes and supported by many worked examples it is essential reading for students and practitioners Topics covered include a range of particle design processes such as crystallization and precipitation granulation grinding aerosol processes and spray drying as well as forms of delivery such as granules tablets dry powders and aerosols Readers will learn from real world examples how the primary particle properties and the structure and properties of the delivery form can lead to high performance products ranging from pharmaceuticals consumer goods and foods to specialty chemicals paints agricultural chemicals and minerals

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