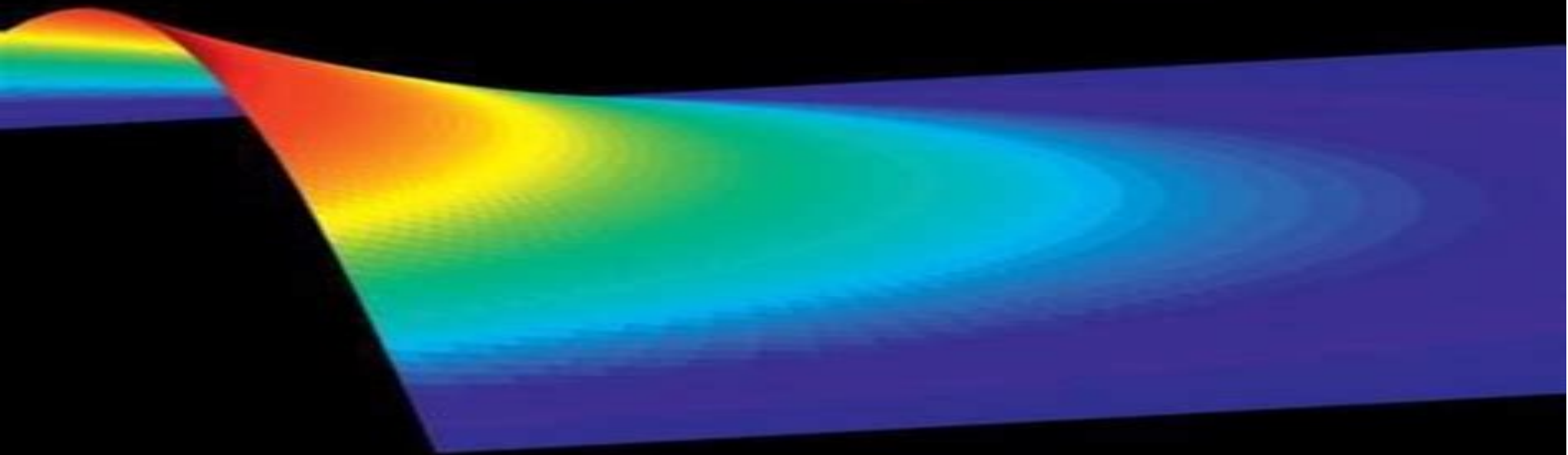


Mathematical Modeling in Chemical Engineering

Anders Rasmuson, Bengt Andersson,
Louise Olsson and Ronnie Andersson



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**Anders Rasmuson, Bengt
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Mathematical Modeling in Chemical Engineering Anders Rasmuson, Bengt Andersson, Louise Olsson, Ronnie Andersson, 2014-03-20 A solid introduction to mathematical modeling for a range of chemical engineering applications covering model formulation simplification and validation It explains how to describe a physical chemical reality in mathematical language and how to select the type and degree of sophistication for a model Model reduction and approximation methods are presented including dimensional analysis time constant analysis and asymptotic methods An overview of solution methods for typical classes of models is given As final steps in model building parameter estimation and model validation and assessment are discussed The reader is given hands on experience of formulating new models reducing the models and validating the models The authors assume the knowledge of basic chemical engineering in particular transport phenomena as well as basic mathematics statistics and programming The accompanying problems tutorials and projects include model formulation at different levels analysis parameter estimation and numerical solution

Mathematical Modeling Rutherford Aris, 1999 Mathematical modeling is the art and craft of building a system of equations that is both sufficiently complex to do justice to physical reality and sufficiently simple to give real insight into the situation Mathematical Modeling A Chemical Engineer's Perspective provides an elementary introduction to the craft by one of the century's most distinguished practitioners Though the book is written from a chemical engineering viewpoint the principles and pitfalls are common to all mathematical modeling of physical systems Seventeen of the author's frequently cited papers are reprinted to illustrate applications to convective diffusion formal chemical kinetics heat and mass transfer and the philosophy of modeling An essay of acknowledgments asides and footnotes captures personal reflections on academic life and personalities Describes pitfalls as well as principles of mathematical modeling Presents twenty examples of engineering problems Features seventeen reprinted papers Presents personal reflections on some of the great natural philosophers Emphasizes modeling procedures that precede extensive calculations

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Chemical Engineering Tanase Gh. Dobre, José G. Sanchez Marcano, 2007-06-18 A description of the use of computer aided modeling and simulation in the development integration and optimization of industrial processes The two authors elucidate the entire procedure step by step from basic mathematical modeling to result interpretation and full scale process performance analysis They further demonstrate similitude comparisons of experimental results from different systems as a tool for broadening the applicability of the calculation methods Throughout the book adopts a very practical approach addressing actual problems and projects likely to be encountered by the reader as well as fundamentals and solution strategies for complex problems It is thus equally useful for student and professional engineers and chemists involved in industrial process and production plant design construction or upgrading

A Step by Step Approach to the Modeling of Chemical Engineering Processes Liliane Maria Ferrareso Lona, 2017-12-15 This book treats modeling and simulation in a simple way that builds on the existing knowledge and intuition of students They will learn how to build a model and solve it using Excel Most chemical engineering students feel a shiver down the spine when they see a set of complex mathematical equations generated from the modeling of a chemical engineering system This is because they usually do not understand how to achieve this mathematical model or they do not know how to solve the equations system without spending a lot of time and effort Trying to understand how to generate a set of mathematical equations to represent a physical system to model and solve these equations to simulate is not a simple task A model most of the time takes into account all phenomena studied during a Chemical Engineering course In the same way there is a multitude of numerical methods that can be used to solve the same set of equations generated from the modeling and many different computational languages can be adopted to implement the numerical methods As a consequence of this comprehensiveness and combinatorial explosion of possibilities most books that deal with this subject are very extensive and embracing making need for a lot of time and effort to go through this subject It is expected that with this book the chemical engineering student and the future chemical engineer feel motivated to solve different practical problems involving chemical processes knowing they can do that in an easy and fast way with no need of expensive software

Modeling with Differential Equations in Chemical Engineering Stanley M. Walas, 1991 Modelling with Differential Equations in Chemical Engineering covers the modelling of rate processes of engineering in terms of differential equations While it

includes the purely mathematical aspects of the solution of differential equations the main emphasis is on the derivation and solution of major equations of engineering and applied science Methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples and problems for solution by the reader Emphasis is placed on numerical and computer methods of solution A key chapter in the book is devoted to the principles of mathematical modelling These principles are applied to the equations in important engineering areas The major disciplines covered are thermodynamics diffusion and mass transfer heat transfer fluid dynamics chemical reactions and automatic control These topics are of particular value to chemical engineers but also are of interest to mechanical civil and environmental engineers as well as applied scientists The material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

Applied Mathematics and Modeling for Chemical Engineers Richard G. Rice, Duong D. Do, James E. Manéval, 2023-03-21 Understand the fundamentals of applied mathematics with this up to date introduction Applied mathematics is the use of mathematical concepts and methods in various applied or practical areas including engineering computer science and more As engineering science expands the ability to work from mathematical principles to solve and understand equations has become an ever more critical component of engineering fields New engineering processes and materials place ever increasing mathematical demands on new generations of engineers who are looking more and more to applied mathematics for an expanded toolkit Applied Mathematics and Modeling for Chemical Engineers provides this toolkit in a comprehensive and easy to understand introduction Combining classical analysis of modern mathematics with more modern applications it offers everything required to assess and solve mathematical problems in chemical engineering Now updated to reflect contemporary best practices and novel applications this guide promises to situate readers in a 21st century chemical engineering field in which direct knowledge of mathematics is essential Readers of the third edition of Applied Mathematics and Modeling for Chemical Engineers will also find Detailed treatment of ordinary differential equations ODEs and partial differential equations PDEs and their solutions New material concerning approximate solution methods like perturbation techniques and elementary numerical solutions Two new chapters dealing with Linear Algebra and Applied Statistics Applied Mathematics and Modeling for Chemical Engineers is ideal for graduate and advanced undergraduate students in chemical engineering and related fields as well as instructors and researchers seeking a handy reference

Numerical Methods and Modeling for Chemical Engineers Mark E. Davis, 1984-02-17 An introduction to the quantitative treatment of differential equations arising from modeling physical phenomena in chemical engineering designed for advanced undergraduates or graduates of chemical engineering taking a course in applied mathematics Presents up to date topics such as ODE IVP s Emphasizes numerical methods and modeling implemented in commercial mathematical software Reviews and recommends which mathematical software to use Examples included

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Simulation in Chemical Engineering Christo Boyadjiev, 2021-12-08 This book presents a theoretical analysis of the modern methods used for modeling various chemical engineering processes. Currently the two primary problems in the chemical industry are the optimal design of new devices and the optimal control of active processes. Both of these problems are often solved by developing new methods of modeling. These methods for modeling specific processes may be different but in all cases they bring the mathematical description closer to the real processes by using appropriate experimental data. In this book the authors detail a new approach for the modeling of chemical processes in column apparatuses. Further they describe the types of neural networks that have been shown to be effective in solving important chemical engineering problems. Readers are also presented with mathematical models of integrated bioethanol supply chains IBSC that achieve improved economic and environmental sustainability. The integration of energy and mass processes is one of the most powerful tools for creating sustainable and energy efficient production systems. This book defines the main approaches for the thermal integration of periodic processes direct and indirect and the recent integration of small scale solar thermal dryers with phase change materials as energy accumulators. An exciting overview of new approaches for the modeling of chemical engineering processes this book serves as a guide for the important innovations being made in theoretical chemical engineering.

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.

Mathematical Modeling in Chemical Engineering Anders Rasmuson, Bengt Andersson, Louise Olsson, 2014-03-20 A solid introduction enabling the reader to successfully formulate construct simplify evaluate and use mathematical models in chemical engineering.

Mathematical Modeling Approaches for Optimization of Chemical Processes Gabriela Corsano, 2009. Mathematical modelling is a powerful tool for solving optimisation problems in chemical engineering. In this work several models are proposed aimed at helping to make decisions about different aspects of the processes lifecycle from the synthesis and design steps up to the operation and scheduling. Using an example of the Sugar Cane industry several models are formulated and solved in order to assess the trade offs involved in optimisation decisions. Thus the power and versatility of mathematical modelling in the area of chemical processes optimisation is analysed and evaluated.

Mathematical Modeling in Chemical Engineering Roger G. E. Franks, 1967

Theoretical Chemical Engineering Christo Boyadjiev, 2010-10-20 The role of theory in science was formulated very brilliantly by Max Planck. Experimenters are the striking force of science. The experiment is a question which science puts to nature. The measurement is the registration of nature's answer. But before the question is put to nature it must be formulated. Before the measurement result is used it must be explained i.e. the answer must be understood correctly. These two problems are obligations of the theoreticians. Chemical engineering is an experimental science but theory permits us to formulate correct experimental conditions and to understand correctly the experimental results. The theoretical methods of chemical engineering for modeling and simulation of industrial

processes are surveyed in this book Theoretical chemical engineering solves the problems that spring up from the necessity for a quantitative description of the processes in the chemical industry They are quite different at the different stages of the quantitative description i e a wide circle of theoretical methods are required for their solutions Modeling and simulation are a united approach to obtain a quantitative description of the processes and systems in chemical engineering and chemical technology which is necessary to clarify the process mechanism or for optimal process design process control and plant renovation Modeling is the creation of the mathematical model i e construction of the mathematical description on the basis of the process mechanism calculation of the model parameters using experimental data and statistical analysis of the model adequacy

Solutions Manual to Accompany Applied Mathematics and Modeling for Chemical Engineers Richard G. Rice, Duong D. Do, James E. Maneval, 2023-05-02 This book is a Solutions Manual to accompany Applied Mathematics and Modeling for Chemical Engineers Third Edition There are many examples provided as homework in the original text and the solution manual provides detailed solutions of many of these problems that are in the parent book Applied Mathematics and Modeling for Chemical Engineers Third Edition

Mathematical Modeling and Analysis of Chemical Engineering Processes Joao Soares, Jason A. Grove, 2015-10-31 Mathematical Modeling and Analysis of Chemical Engineering Processes is written as a guide for those new to mathematical modeling to learn to use mathematics as a problem solving tool It directly approaches modeling of processes together with the mathematical methods for their solution The focus of this book is on translating a physical description of a situation into an ordinary or partial differential equation which is a skill that will help you to approach problems throughout your career in engineering This book will assist you in the proper selection and use of dedicated numerical methods to model simulate and characterize chemical systems It gives also the foundations for the modeling criteria to be adopted for effective solutions Applications also play a relevant role since they show in practice the use of models and tools Phenomena and numerical methods are described from their bases in an applied and accessible style The applications in the appendix are consistent with data information methods and results so as to allow you to completely reproduce what you learn h Develop modeling components with the MATLAB methods required to solve them Translate real world engineering problems into mathematical problems Solve practical problems in reaction engineering heat and mass transfer using computer aided tools

Conservation Equations And Modeling Of Chemical And Biochemical Processes Said S.E.H. Elnashaie, Parag Garhyan, 2003-03-26 Presenting strategies in control policies this text uses a systems theory approach to predict simulate and streamline plant operation conserve fuel and resources and increase workplace safety in the manufacturing chemical petrochemical petroleum biochemical and energy industries Topics of discussion include system theory and chemical biochemical engineering systems steady state unsteady state and thermodynamic equilibrium modeling of systems fundamental laws governing the processes in terms of the state variables different classifications of physical models the story of chemical engineering in relation to system theory and mathematical modeling

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