

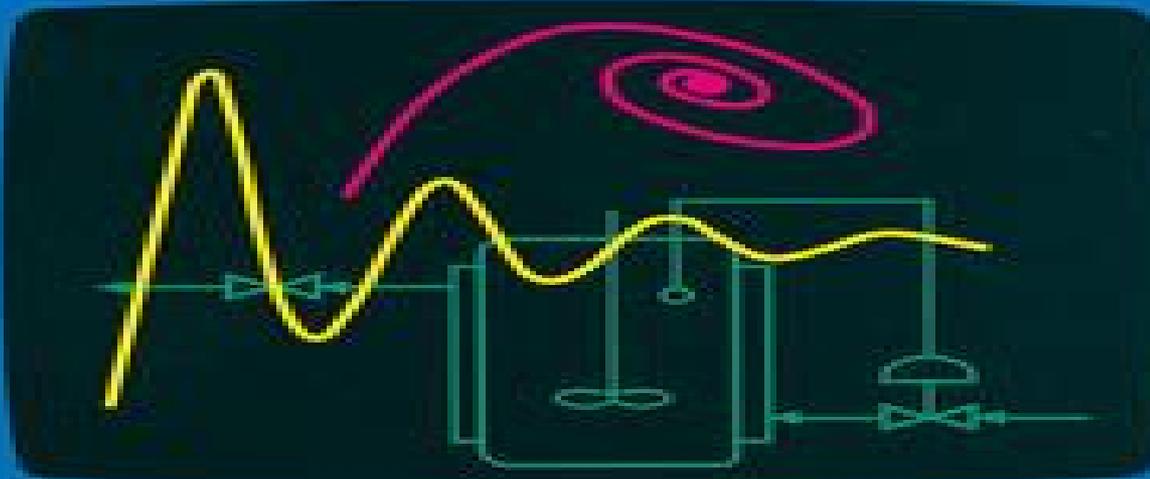
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Chemical Engineering Dynamics John Ingham, Irving J. Dunn, Elmar Heinzle, Jiří E. Přenosil, 2008-07-11 In this book the reader is guided through the complex study of dynamic chemical engineering systems by the unique combination of a simplified presentation of the fundamental theory Part 1 and direct hands on computer experimentation with the provision of 85 accompanying computer based simulation examples Part 2 supplied on diskette The ISIM digital simulation language is very simple to use and its powerful interactive nature enables the readers to create their own simulations based on their own specific problems This powerful dynamic ISIM software is ready to run on any DOS personal computer The treatment employed in this book is well tried and tested based on over 20 years experience in teaching an international post experience course Whether for the teacher the student the chemist or engineer this book serves as the key to a greater understanding of chemical engineering dynamics through the fun and enjoyment of active learning

Chemical Engineering Dynamics John Ingham, Irving J. Dunn, Elmar Heinzle, Jiri E. Prenosil, Jonathan B. Snape, 2008-02-08 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

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Development of Sustainable Bioprocesses Elmar Heinzle,Arno P. Biber,Charles L. Cooney,2007-01-11 Bioprocess technology involves the combination of living matter whole organism or enzymes with nutrients under laboratory conditions to make a desired product within the pharmaceutical food cosmetics biotechnology fine chemicals and bulk chemicals sectors Industry is under increasing pressure to develop new processes that are both environmentally friendly and cost effective and this can be achieved by taking a fresh look at process development namely by combining modern process modeling techniques with sustainability assessment methods Development of Sustainable Bioprocesses Modeling and Assessment describes methodologies and supporting case studies for the evolution and implementation of sustainable bioprocesses Practical and industry focused the book begins with an introduction to the bioprocess industries and development procedures Bioprocesses and bioproducts are then introduced together with a description of the unit operations involved Modeling procedures a key feature of the book are covered in chapter 3 prior to an overview of the key sustainability assessment methods in use environmental economic and societal The second part of the book is devoted to case studies which cover the development of bioprocesses in the pharmaceutical food fine chemicals cosmetics and bulk chemicals industries Some selected case studies include citric acid biopolymers antibiotics biopharmaceuticals Supplementary material provides hands on materials so that the techniques can be put into practice These materials include a demo version of SuperPro Designer software used in process engineering and models of all featured case studies excel sheets of assessment methods Monte Carlo simulations and exercises Previously available on CD ROM the supplementary material can now be accessed via <http://booksupport.wiley.com> by entering the author name book title or isbn and clicking on the desired entry This will then give a listing of all the content available for download Please read any text files before downloading material

The Chemical Engineer ,2000

European Symposium on Computer Aided Process Engineering - 14 Ana Paula Barbosa-Póvoa,Henrique Matos,2004-05-14 This book contains papers presented at the 14th European Symposium on Computer Aided Process Engineering ESCAPE 14 The ESCAPE symposia bring together scientists students and engineers from academia and industry who are active in the research and application of Computer Aided Process Engineering The objective of ESCAPE 14 is to highlight the use of computers and information technology tools on five specific themes 1 Product and Process Design 2

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Dynamics of Environmental Bioprocesses Jonathan B. Snape, 1995-04-17 Dynamic environmental processes are complex the easiest and most effective way to understanding them lies through the disciplines of dynamic modelling and computer simulation The prerequisite modelling fundamentals are presented in the first chapter in a manner comprehensible to students as well as to practising scientists and engineers The second chapter describes the many environmental processes that lend themselves to modelling for example pollution and wastewater treatment The third part of the book provides 65 simulation examples both on the page and on an accompanying diskette in the simulation language ISIM the first time that this has been done with a teaching book in this field ready to run on any DOS personal computer Crucially the simulation runs can be interrupted to allow rapid interactive parameter changes and easy plotting of results this enables the reader to get a feel for the model and system behaviour **Advances in Control Education 2000** Ljubisa Vlačić, M. L. Brisk, 2001 *Advances in Control Education 2000* saw the additional sponsorship of the Institute of Electrical and Electronic Engineers IEEE Control System Society and the Institution of Engineers Australia National Committee on Automation Control

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through simulations based on modern versions of MATLAB This revised edition teaches the field s most important techniques behaviors and control problems with even more practical examples and exercises Wide ranging enhancements include safety considerations an expanded discussion of digital control additional process examples and updates throughout for newer versions of MATLAB and SIMULINK Fundamentals of process control and instrumentation including objectives variables block diagrams and process flowsheets Methodologies for developing dynamic models of chemical processes including compartmental models Dynamic behavior of linear systems state space models transfer function based models including conversion to state space and more Empirical and discrete time models including relationships among types of discrete models Feedback control proportional integral and derivative PID controllers and closed loop stability analysis Frequency response analysis techniques for evaluating the robustness of control systems Improving control loop performance internal model control IMC automatic tuning gain scheduling and enhanced disturbance rejection Split range selective and override strategies for switching among inputs or outputs Control loop interactions and multivariable controllers An introduction to model predictive control MPC with a new discrete state space model derivation exercise Bequette walks step by step through developing control instrumentation diagrams for an entire chemical process reviewing common control strategies for individual unit operations then discussing strategies for integrated systems This edition also includes 16 learning modules demonstrating how to use MATLAB and SIMULINK to solve many key control problems including new modules on process monitoring and safety as well as a detailed new study of artificial pancreas systems for Type 1 diabetes Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

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