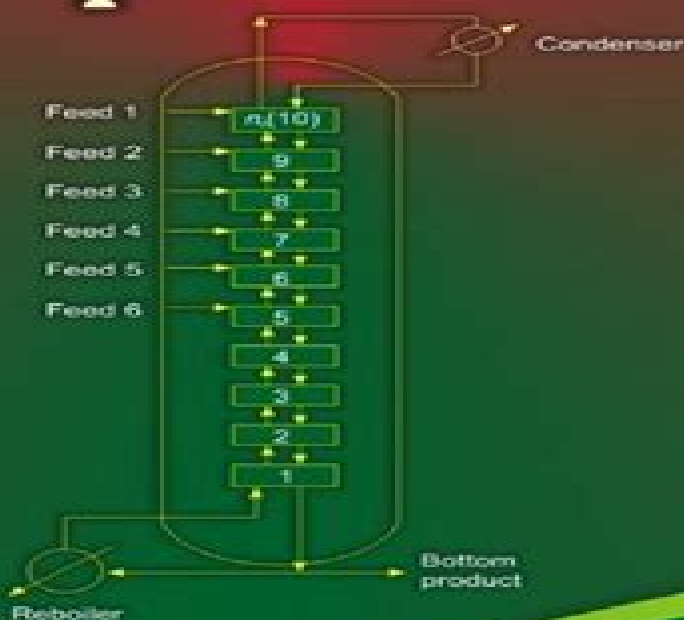


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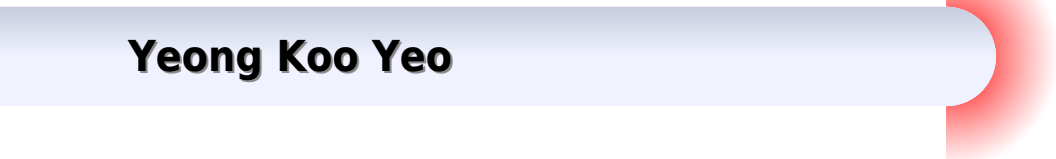
Chemical Process Modelling and Computer Simulation



AMIYA K. JANA

Chemical Process Modelling And Computer Simulation

Yeong Koo Yeo



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, *Computational Methods for Process Simulation* W. Fred Ramirez, 1997-11-20 Process Modelling and simulation have proved to be extremely successful engineering tools for the design and optimisation of physical chemical and biochemical processes The use of simulation has expanded rapidly over the last two decades because of the availability of large high speed computers and indeed has become even more widespread with the rise of the desk top PC resources now available to nearly every engineer and student In the chemical industry large realistic non linear problems are routinely solved with the aid of computer simulation This has a number of benefits including easy assessment of the economic desirability of a project convenient investigation of the effects of changes to system variables and finally the introduction of mathematical rigour into the design process and inherent assumptions that may not have been there before *Computational Methods for Process Simulation* develops the methods needed for the simulation of real processes to be found in the process industries It also stresses the engineering fundamentals used in developing process models Steady state and dynamic systems are considered for both spatially lumped and spatially distributed problems It develops analytical and numerical computational techniques for algebraic ordinary and partial differential equations and makes use of computer software routines that are widely available Dedicated software examples are available via the internet Written for a compulsory course element in the US Includes examples using software used in academia and industry Software available via the Internet

Modeling and Simulation of Chemical Process Systems Nayef Ghasem, 2018-11-08 In this textbook the author teaches readers how to model and simulate a unit process operation through developing mathematical model equations solving model equations manually and comparing results with those simulated through software It covers both lumped parameter systems and distributed parameter systems as well as using MATLAB and Simulink to solve the system model equations for both Simplified partial differential equations are solved using COMSOL an effective tool to solve PDE using the fine element method This book includes end of chapter problems and worked examples and summarizes reader goals at the beginning of each chapter

Chemical Engineering Dynamics John Ingham, Irving J. Dunn, Elmar Heinze, 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

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Process Modeling and Simulation for Chemical Engineers Simant Ranjan Upreti, 2017 This book provides a rigorous treatment of the fundamental concepts and techniques involved in process modeling and simulation The book allows the reader to i Get a solid grasp of under the hood mathematical results ii Develop models of sophisticated processes iii Transform models to different geometries and domains as appropriate iv Utilize various model simplification techniques v Learn simple and effective computational methods for model simulation vi Intensify the effectiveness of their research

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