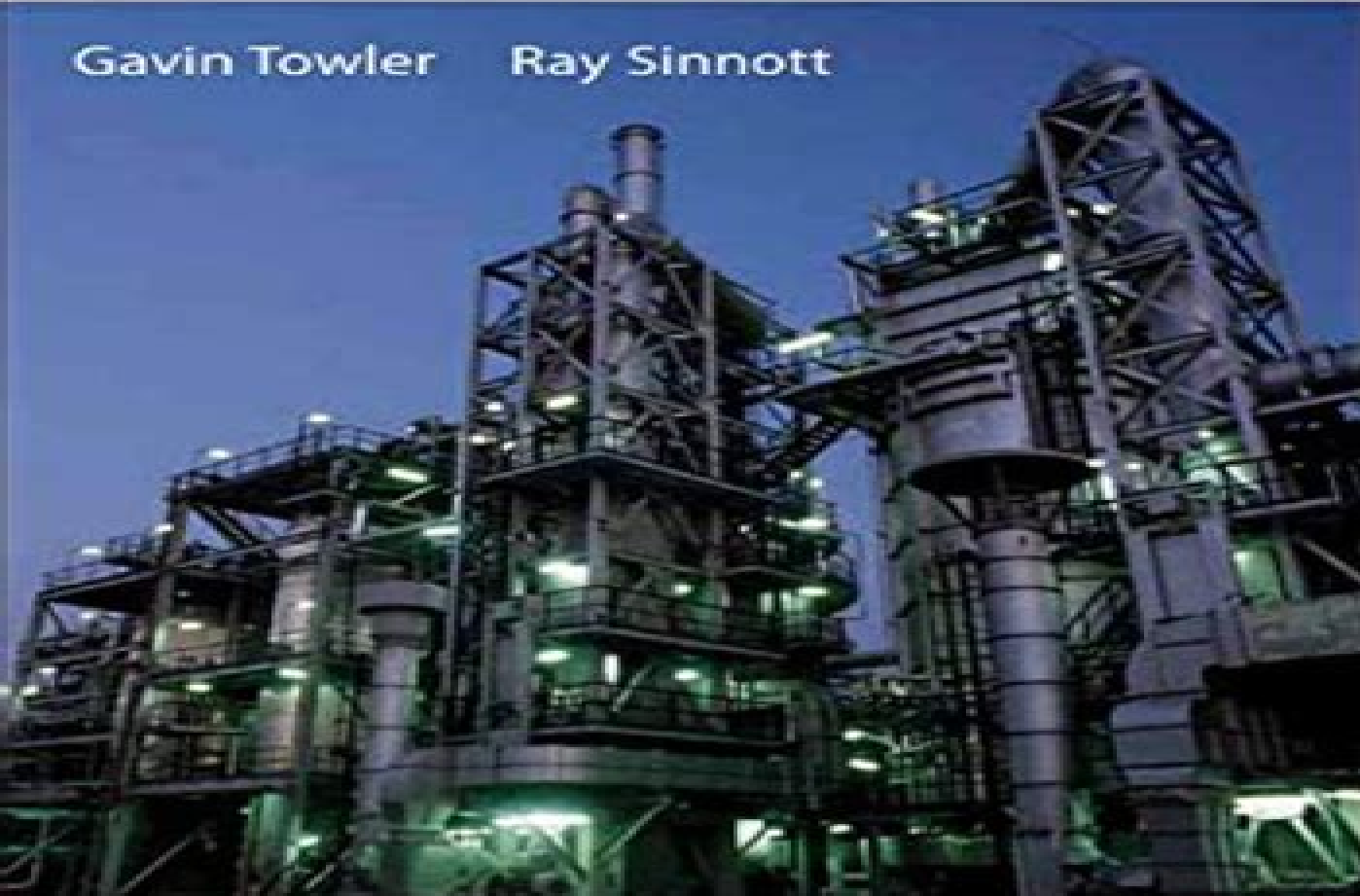


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of Plant and Process Design

Second Edition

Gavin Towler Ray Sinnott



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Principles of Chemical Engineering Practice George DeLancey, 2013-05-22 Enables chemical engineering students to bridge theory and practice Integrating scientific principles with practical engineering experience this text enables readers to master the fundamentals of chemical processing and apply their knowledge of such topics as material and energy balances transport phenomena reactor design and separations across a broad range of chemical industries The author skillfully guides readers step by step through the execution of both chemical process analysis and equipment design Principles of Chemical Engineering Practice is divided into two sections the Macroscopic View and the Microscopic View The Macroscopic View examines equipment design and behavior from the vantage point of inlet and outlet conditions The Microscopic View is focused on the equipment interior resulting from conditions prevailing at the equipment boundaries As readers progress through the text they will learn to master such chemical engineering operations and equipment as Separators to divide a mixture into parts with desirable concentrations Reactors to produce chemicals with needed properties Pressure changers to create favorable equilibrium and rate conditions Temperature changers and heat exchangers to regulate and change the temperature of process streams Throughout the book the author sets forth examples that refer to a detailed simulation of a process for the manufacture of acrylic acid that provides a unifying thread for equipment sizing in context The manufacture of hexyl glucoside provides a thread for process design and synthesis Presenting basic thermodynamics Principles of Chemical Engineering Practice enables students in chemical engineering and related disciplines to master and apply the fundamentals and to proceed to more advanced studies in chemical engineering

Chemical Engineering Computation with MATLAB® Yeong Koo Yeo, 2020-12-15 Chemical Engineering Computation with MATLAB Second Edition continues to present basic to advanced levels of problem solving techniques using MATLAB as the computation environment The Second Edition provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to MATLAB version

2020 It also includes a new chapter on computational intelligence and Offers exercises and extensive problem solving instruction and solutions for various problems Features solutions developed using fundamental principles to construct mathematical models and an equation oriented approach to generate numerical results Delivers a wealth of examples to demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results Includes an appendix offering an introduction to MATLAB for readers unfamiliar with the program which will allow them to write their own MATLAB programs and follow the examples in the book Provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization This essential textbook readies engineering students researchers and professionals to be proficient in the use of MATLAB to solve sophisticated real world problems within the interdisciplinary field of chemical engineering The text features a solutions manual lecture slides and MATLAB program files

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Advances in Eco-Fuels for a Sustainable Environment Abul Kalam Azad,2018-11-30 Advances in Eco fuels for Sustainable Environment presents the most recent developments in the field of environmentally friendly eco fuels Dr Kalad Azad and his team of contributors analyze the latest bio energy technologies and emission control strategies while also considering other important factors such as environmental sustainability and energy efficiency improvement Coverage includes biofuel extraction and conversion technologies the implementation of biotechnologies and system improvement methods in the process industries This book will help readers develop a deeper understanding of the relevant concepts and solutions to global sustainability issues with the goal of achieving cleaner more efficient energy Energy industry practitioners energy policymakers and government organizations renewables researchers and academics will find this book extremely useful Focuses on recent developments in the field of eco fuels applying concepts to various medium large scale industries Considers the societal and environmental benefits along with an analysis of technologies and research Includes contributions from industry experts and global case studies to demonstrate the application of the research and technologies discussed

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Heat and Mass Transfer for Chemical Engineers: Principles and Applications Giorgio Carta, 2021-08-06 Learn and apply heat and mass transfer principles to real world chemical engineering problems This hands on textbook provides a concept based introduction to heat and mass transfer procedures and lays out the foundation to practical applications in a broad range of fields relevant to chemical and biochemical processing Written by a recognized academic and experienced author Heat and Mass Transfer for Chemical Engineers Principles and Applications contains comprehensive discussions on conductive and diffusive processes and the engineering correlations between momentum heat and mass transfer Readers will get Mathematica workbooks that facilitate calculations and explore trends The book refers extensively to Perry's Chemical Engineers Handbook Ninth Edition for data and correlations Coverage includes Introduction to heat and mass transfer Thermal conductivity Steady state one dimensional heat conduction Combined conductive and convective heat transfer Multidimensional and transient heat conduction

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Chemical Engineering Design Ray Sinnott, 2014-06-28 This 2nd Edition of Coulson agitated vessels are now covered and the discussion of fired heaters and plate heat exchangers extended The appendices have been extended to include a computer program for energy balances illustrations of equipment specification sheets and heat exchanger tube layout diagrams This 2nd Edition will continue to provide undergraduate students of chemical engineering chemical engineers in industry and chemists and mechanical engineers who have to tackle problems arising in the process industries with a valuable text on how a complete process is designed and how it must be fitted into the environment *Chemical Engineering Design* R. K. Sinnott, John Metcalfe Coulson, John Francis Richardson, 2005 Coulson and Richardson's classic series provides the student with an account of the fundamentals of chemical engineering This volume covers the application of chemical engineering principles to the design of chemical processes and equipment

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