

BASIC PRINCIPLES AND CALCULATIONS IN CHEMICAL ENGINEERING

NINTH EDITION

DAVID M. HIMMELBLAU • JAMES B. RIGGS



INTERNATIONAL SERIES IN THE
PHYSICAL AND CHEMICAL ENGINEERING SCIENCES



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Michael Seilmaier



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contemporary chemical petroleum and environmental engineering applications and contains extensive new coverage and examples related to biotech nanotech green environmental engineering and process safety with many new MATLAB and Python problems throughout Authors David M Himmelblau and James B Riggs offer a strong foundation of skills and knowledge for successful study and practice guiding students through formulating and solving material and energy balance problems as well as describing gases liquids and vapors Throughout they introduce efficient consistent learner friendly ways to solve problems analyze data and gain a conceptual application based understanding of modern processes This edition condenses coverage from previous editions to serve today s students and faculty more efficiently In two entirely new chapters the authors provide a comprehensive introduction to dynamic material and energy balances as well as psychrometric charts Modular chapters designed to support introductory courses of any length Introductions to unit conversions basis selection and process measurements Strategies for solving diverse material and energy balance problems including material balances with chemical reaction and for multi unit processes and energy balances with reaction Clear introductions to key concepts ranging from stoichiometry to enthalpy Coverage of ideal real gases multi phase equilibria unsteady state material humidity psychrometric charts and more Self assessment questions to help readers identify areas they don t fully understand Thought discussion and homework problems in every chapter New biotech bioengineering nanotechnology green environmental engineering and process safety coverage Relevant new MATLAB and Python homework problems and projects Extensive tables charts and glossaries in each chapter Reference appendices presenting atomic weights and numbers Pitzer Z 0 Z 1 factors heats of formation and combustion and more Easier than ever to use this book is the definitive practical introduction for students license candidates practicing engineers and scientists Supplemental Online Content available with book registration Three additional chapters on Heats of Solution and Mixing Liquids and Gases in Equilibrium with Solids and Solving Material and Energy Balances with Process Simulators Flowsheeting Codes Nine additional appendices Physical Properties of Various Organic and Inorganic Substances Heat Capacity Equations Vapor Pressures Heats of Solution and Dilution Enthalpy Concentration Data Thermodynamic Charts Physical Properties of Petroleum Fractions Solution of Sets of Equations Fitting Functions to Data Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details [Basic Principles and Calculations in Chemical Engineering, Global Edition](#) David M. Himmelblau, James B. Riggs, 2023-02-15 This best selling introductory chemical engineering guide has been thoroughly revised streamlined and updated to reflect today s sweeping changes in chemical engineering curricula It provides students with fundamental knowledge of processes that chemical engineers utilize in the refining and chemical industries as well as the bioengineering nanoengineering and microelectronics industries Like previous editions Basic Principles and Calculations in Chemical Engineering 9th Edition Global Edition offers a strong foundation of skills and knowledge for successful study and practice guiding students through formulating and

solving material and energy balance problems as well as describing gases liquids and vapors Throughout it introduces efficient consistent student friendly methods for solving problems analyzing data and gaining a conceptual application based understanding of modern chemical engineering processes Coverage in previous editions has been condensed and streamlined to serve today s students and faculty more effectively Two entirely new chapters have been added presenting complete introductions to dynamic material and energy balances and to Psychrometric Charts Additionally MATLAB and Python™ codes have been integrated into the text

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Material and energy balances are fundamental to many engineering disciplines and have a major role in decisions related to sustainable development This text which covers the substance of corresponding undergraduate courses presents the balance concepts and calculations in a format accessible to students engineering professionals and others who are concerned with the material and energy future of our society Following a review of the basic science and economics the text focuses on material and energy accounting in batch and continuous operations with emphasis on generic process units flow sheets stream tables and spreadsheet calculations There is a unified approach to reactive and non reactive energy balance calculations plus chapters dedicated to the general balance equation and simultaneous material and energy balances Seventy worked examples show the elements of process balances and connect them with the material and energy concerns of the 21st century

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Table of Contents Basic Principles And Calculations In Chemical Engineering 8 E

1. Understanding the eBook Basic Principles And Calculations In Chemical Engineering 8 E
 - The Rise of Digital Reading Basic Principles And Calculations In Chemical Engineering 8 E
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Principles And Calculations In Chemical Engineering 8 E
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Principles And Calculations In Chemical Engineering 8 E
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Principles And Calculations In Chemical Engineering 8 E
 - Personalized Recommendations
 - Basic Principles And Calculations In Chemical Engineering 8 E User Reviews and Ratings
 - Basic Principles And Calculations In Chemical Engineering 8 E and Bestseller Lists
5. Accessing Basic Principles And Calculations In Chemical Engineering 8 E Free and Paid eBooks
 - Basic Principles And Calculations In Chemical Engineering 8 E Public Domain eBooks
 - Basic Principles And Calculations In Chemical Engineering 8 E eBook Subscription Services
 - Basic Principles And Calculations In Chemical Engineering 8 E Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Basic Principles And Calculations In Chemical Engineering 8 E Compatibility with Devices
 - Basic Principles And Calculations In Chemical Engineering 8 E Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Principles And Calculations In Chemical Engineering 8 E
 - Highlighting and Note-Taking Basic Principles And Calculations In Chemical Engineering 8 E
 - Interactive Elements Basic Principles And Calculations In Chemical Engineering 8 E
8. Staying Engaged with Basic Principles And Calculations In Chemical Engineering 8 E
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Principles And Calculations In Chemical Engineering 8 E
9. Balancing eBooks and Physical Books Basic Principles And Calculations In Chemical Engineering 8 E
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Principles And Calculations In Chemical Engineering 8 E
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Principles And Calculations In Chemical Engineering 8 E
 - Setting Reading Goals Basic Principles And Calculations In Chemical Engineering 8 E
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Principles And Calculations In Chemical Engineering 8 E
 - Fact-Checking eBook Content of Basic Principles And Calculations In Chemical Engineering 8 E
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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