



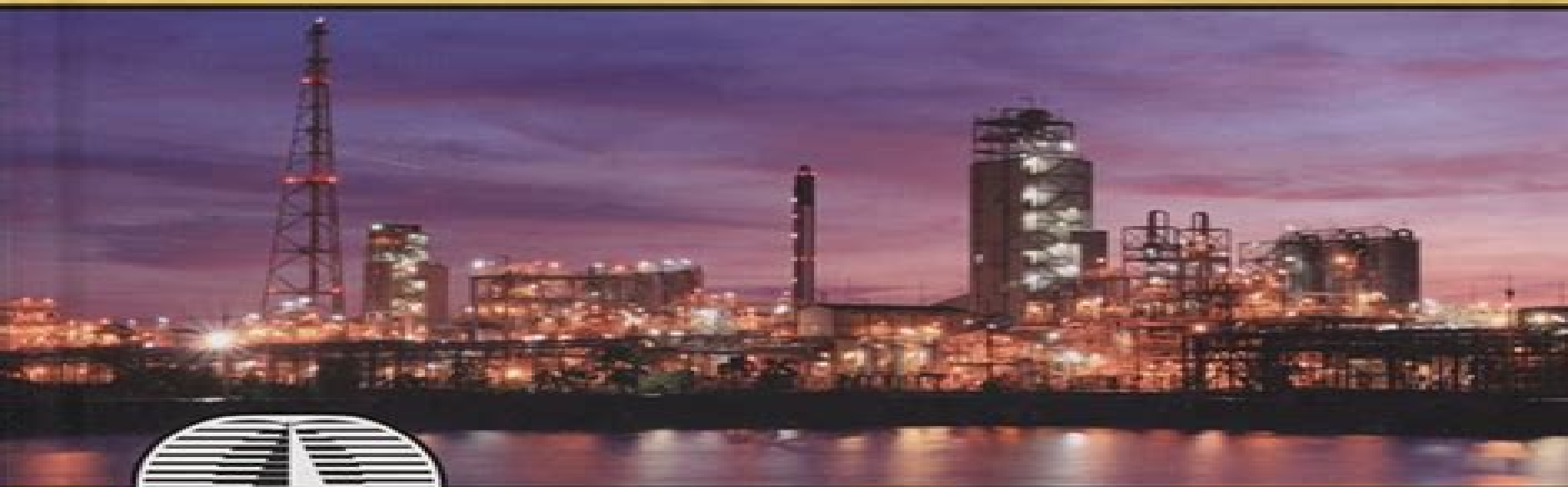
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Himmelblau, James B. Riggs, 2023-02-15 This best selling introductory chemical engineering guide has been thoroughly revised streamlined and updated to reflect today's sweeping changes in chemical engineering curricula It provides students with fundamental 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

*Chemical Engineering Design* Ray Sinnott, Gavin Towler, 2019-05-26 Chemical Engineering Design SI Edition is one of the best known and most widely used textbooks available for students of chemical engineering The enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity This new edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards Includes new content covering food pharmaceutical and biological processes and the unit operations commonly used Features expanded coverage on the design of reactors Provides updates on plant and equipment costs regulations and technical standards Integrates coverage with Honeywell's UniSim software for process design and simulation Includes online access to Engineering's Cleopatra cost estimating software

**Principles of Chemical Engineering Processes** Nayef Ghasem, Redhouane Henda, 2014-11-10 Principles of Chemical Engineering Processes Material and Energy Balances introduces the basic principles and calculation techniques used in the field of chemical engineering providing a solid understanding of the fundamentals of the application of material and energy balances Packed with illustrative examples and case studies this book Discusses problems in material and energy balances related to chemical reactors Explains the concepts of dimensions units psychrometry steam properties and conservation of mass and energy Demonstrates how MATLAB and Simulink can be used to solve complicated problems of material and energy balances Shows how to solve steady state and transient mass and energy balance problems involving multiple unit processes and recycle bypass and purge streams Develops quantitative problem solving skills specifically the ability to think quantitatively including numbers and units the ability to translate words into diagrams and mathematical expressions the ability to use common sense to interpret vague and ambiguous language in problem statements and the ability to make judicious use of approximations and

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Basic Principles and Calculations in Chemical Engineering, Fourth Edition David Mautner Himmelblau, 1982

Aplikasi Spreadsheet untuk Perhitungan Teknik Kimia Sederhana Rama Oktavian, A.S. Dwi Saptati Nur Hidayati, 2017-08-01

Buku ini membahas tentang aplikasi spreadsheet yang disediakan oleh Microsoft Excel 2013 untuk membantu menyelesaikan perhitungan yang terkait dengan permasalahan di bidang Teknik Kimia Pembahasan di dalam buku ini dibagi menjadi 5 bab yaitu pada Bab 1 dibahas mengenai aplikasi spreadsheet yang digunakan di perhitungan Teknik Kimia dan dasar Bab 2 menjelaskan tentang prinsip prinsip dasar perhitungan neraca massa di Teknik Kimia dan aplikasi spreadsheet untuk perhitungan neraca massa Bab 3 berisi tentang prinsip prinsip dasar perhitungan neraca energi di Teknik Kimia dan aplikasi spreadsheet untuk perhitungan neraca energi pada sistem tanpa reaksi dan dengan reaksi Bab 4 menjelaskan tentang prinsip prinsip dasar termodinamika teknik kimia istilah termodinamika properti termodinamika persamaan keadaan dan kesetimbangan fasa serta aplikasi spreadsheet yang digunakan untuk perhitungan properti termodinamika persamaan keadaan dan kesetimbangan fasa Bab 5 menjelaskan prinsip prinsip dasar teknik reaksi kimia dan aplikasi spreadsheet untuk perhitungan teknik reaksi kimia

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Fundamentals of Chemical Engineering Thermodynamics Themis Matsoukas, 2012-10-02

The Clear Well Organized Introduction to Thermodynamics Theory and Calculations for All Chemical Engineering Undergraduate Students This text is designed to make thermodynamics far easier for undergraduate chemical engineering students to learn and to help them perform thermodynamic calculations with confidence Drawing on his award winning courses at Penn State Dr Themis Matsoukas focuses on why as well as how He offers extensive imagery to help students conceptualize the equations illuminating thermodynamics with more than 100 figures as well as 190 examples from within and beyond chemical engineering Part I clearly introduces the laws of thermodynamics with applications to pure fluids Part II extends thermodynamics to mixtures emphasizing phase and chemical equilibrium Throughout Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering including separations reactions and capstone design More than 300 end of chapter problems range from basic calculations to realistic environmental applications these can be solved with any leading mathematical software Coverage includes Pure fluids PVT behavior and basic calculations of enthalpy and entropy Fundamental relationships and the calculation of properties from equations of state Thermodynamic analysis of chemical processes Phase diagrams of binary and simple ternary systems Thermodynamics of mixtures using equations of state Ideal and nonideal solutions Partial miscibility solubility of gases and solids osmotic processes Reaction equilibrium with



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