

CHEMICAL PROCESS PRINCIPLES

Part-I

Material & Energy Balances
SECOND EDITION

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Chemical Process Principles Pt 1 Material And Energy Balances

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Chemical Process Principles Pt 1 Material And Energy Balances:

Chemical Process Principles Part 1 Olaf A. Hougen, 1966 **Chemical Process Principles. Pt. 1. Material and Energy Balances** O.A. Hougen, K.M. Watson, R.A. Ragatz, 1954 *Chemical Process* Robin Smith, 2005-06-10 This book deals with the design and integration of chemical processes emphasizing the conceptual issues that are fundamental to the creation of the process Chemical process design requires the selection of a series of processing steps and their integration to form a complete manufacturing system The text emphasizes both the design and selection of the steps as individual operations and their integration Also the process will normally operate as part of an integrated manufacturing site consisting of a number of processes serviced by a common utility system The design of utility systems has been dealt with in the text so that the interactions between processes and the utility system and interactions between different processes through the utility system can be exploited to maximize the performance of the site as a whole Chemical processing should form part of a sustainable industrial activity For chemical processing this means that processes should use raw materials as efficiently as is economic and practicable both to prevent the production of waste that can be environmentally harmful and to preserve the reserves of raw materials as much as possible Processes should use as little energy as economic and practicable both to prevent the build up of carbon dioxide in the atmosphere from burning fossil fuels and to preserve reserves of fossil fuels Water must also be consumed in sustainable quantities that do not cause deterioration in the quality of the water source and the long term quantity of the reserves Aqueous and atmospheric emissions must not be environmentally harmful and solid waste to landfill must be avoided Finally all aspects of chemical processing must feature good health and safety practice It is important for the designer to understand the limitations of the methods used in chemical process design The best way to understand the limitations is to understand the derivations of the equations used and the assumptions on which the equations are based Where practical the derivation of the design equations has been included in the text The book is intended to provide a practical guide to chemical process design and integration for undergraduate and postgraduate students of chemical engineering practicing process designers and chemical engineers and applied chemists working in process development Examples have been included throughout the text Most of these examples do not require specialist software and can be performed on spreadsheet software Finally a number of exercises have been added at the end of each chapter to allow the reader to practice the calculation procedures **Chemical and Energy Process Engineering** Sigurd Skogestad, 2008-08-27 Emphasizing basic mass and energy balance principles Chemical and Energy Process Engineering prepares the next generation of process engineers through an exemplary survey of energy process engineering basic thermodynamics and the analysis of energy efficiency By emphasizing the laws of thermodynamics and the law of mass matter conservation the Material And Energy Balances For Engineers And Environmentalists (Second Edition) Colin William Oloman, 2023-06-20 Material and energy M E balances are fundamental to biological chemical electrochemical

photochemical and environmental engineering disciplines and important in many fields related to sustainable development This comprehensive compendium presents the basic M E balance concepts and calculations in a format easily digested by students engineering professionals and those concerned with related environmental issues The useful reference text includes worked examples for each chapter and demonstrates process balances in the framework of M E concerns of the 21st century The additional problems and solutions in the Appendix embrace a wide range of subjects from fossil fuels to fuel cells solar energy space stations carbon dioxide capture and sodium ion batteries *Chemical Process Principles* Olaf A. Hougen,1962

Biomass Conversion Processes for Energy and Fuels Samir S. Sofer,Oskar R. Zaborsky,2012-12-06 Countless pages have been written on alternative energy sources since the fall of 1973 when our dependence on fossil petroleum resources became a grim reality One such alternative is the use of biomass for producing energy and liquid and gaseous fuels The term biomass generally refers to renewable organic matter generated by plants through photosynthesis Thus trees agri cultural crops and aquatic plants are prime sources of biomass Furthermore as these sources of biomass are harvested and processed into commercial prod ucts residues and wastes are generated These together with municipal solid wastes not only add to the total organic raw material base that can be utilized for energy purposes but they also need to be removed for environmental reasons Biomass has been used since antiquity for energy and material needs In is still one of the most sought after energy sources in most of the fact firewood world Furthermore wood was still a dominant energy source in the U S only a hundred years ago equal with coal Currently biomass contributes about 15 2 quadrillion Btu l quad 10 Btu of energy to our total energy consump tion of about 78 quad Two quad may not seem large when compared to the contribution made by petroleum 38 quad or natural gas 20 quad but bio mass is nearly comparable to nuclear energy 2 7 quad Chemical Process Principles O. A. Hougen,K. M. Watson,1967 Introduction to Food Process Engineering P. G. Smith,2011-02-11 This is a new book on food process engineering which treats the principles of processing in a scientifically rigorous yet concise manner and which can be used as a lead in to more specialized texts for higher study It is equally relevant to those in the food industry who desire a greater understanding of the principles of the food processes with which they work This text is written from a quantitative and mathematical perspective and is not simply a descriptive treatment of food processing The aim is to give readers the confidence to use mathematical and quantitative analyses of food processes and most importantly there are a large number of worked examples and problems with solutions The mathematics necessary to read this book is limited to elementary differential and integral calculus and the simplest kind of differential equation Chemical Process Principles Olaf Andreas Hougen,Kenneth Merle Watson,1947

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