

PART I - TRANSPORT PROCESSES: MOMENTUM, HEAT, AND MASS

(1.2-1)

Eq. (1.3-4) $K = 353.2 = ^\circ\text{C} + 273.15$ $^\circ\text{C} = 90.05 = \boxed{80^\circ\text{C}}$

Eq. (1.3-2) $^\circ\text{C} = 90.0 = (1/1.8)(^\circ\text{F} - 32)$ $^\circ\text{F} = \boxed{176^\circ\text{F}}$

Eq. (1.3-3) $^\circ\text{R} = ^\circ\text{F} + 460 = 176 + 460$ $^\circ\text{R} = \boxed{636^\circ\text{R}}$

(1.2-2)

Eq. (1.3-2) $^\circ\text{C} = (1/1.8)(^\circ\text{F} - 32) = (1/1.8)(155 - 32) = \boxed{68.33^\circ\text{C}}$

Eq. (1.3-4) $K = ^\circ\text{C} + 273.15 = 68.33 + 273.15 = \boxed{341.5 K}$

Eq. (1.3-3) $^\circ\text{R} = ^\circ\text{F} + 460 = 155 + 460 = \boxed{615^\circ\text{R}}$

(1.3-1)

MW(O₂) = 32.00, MW(N₂) = 28.02

MW(air) = 0.21(32.00) + 0.79(28.02) = $\boxed{28.9 \text{ kg/kg mol}}$

(1.3-2)



Moles CO = $\frac{56.0 \text{ kg}}{28.01 \text{ kg/kg mol}} = 2.00 \text{ kg mol}$

Moles O₂ = 1.00, $1.00(32.00) = \boxed{32.0 \text{ kg O}_2}$ $2.00(44.0) = \boxed{88.0 \text{ kg CO}_2}$

(1.3-3)

Gas	g	MW	g mol	Mol frac
N ₂	20	28.02	0.7138	0.1648 mol frac
O ₂	83	32.00	2.5938	0.5990
CO ₂	45	44.01	1.0225	0.2362
Total	148 g		4.3301 g mol	1.0000

Average mol wt = $\frac{148 \text{ g}}{4.3301 \text{ g mol}} = \boxed{34.2 \text{ g/g mol}}$
 $\boxed{34.2 \text{ kg/kg mol}}$

Chap 8 Solution To Geankoplis Unit Operations

A. Constantinides, Navid Mostoufi



Chap 8 Solution To Geankoplis Unit Operations:

Mass Transfer Effects in Olefin Solution Polymerization Jiaying Li Mallon,1996 *Chemical and Process Engineering Unit Operations* Kathleen Bourton,1968 Food Engineering Laboratory Manual Gustavo V. Barbosa-Canovas,Li Ma,Blas J. Barletta,1997-05-22 FROM THE PREFACE The purpose of this laboratory manual is to facilitate the understanding of the most relevant unit operations in food engineering The first chapter presents information on how to approach laboratory experiments topics covered include safety preparing for a laboratory exercise effectively performing an experiment properly documenting data and preparation of laboratory reports The following eleven chapters cover unit operations centered on food applications dehydration thermal processing friction losses in pipes freezing extrusion evaporation and physical separations These chapters are systematically organized to include the most relevant theoretical background pertaining to each unit operation the objectives of the laboratory exercise materials and methods expected results examples questions and references The experiments presented have been designed for use with generic equipment to facilitate the adoption of this manual

Chemical Engineering Progress ,1994 **Chemical and Process Engineering Unit Operations** Kay Bourton ,1968 **Encyclopedia of Agricultural, Food, and Biological Engineering** Dennis R. Heldman,Carmen I. Moraru,2010-10-21 Examining the role of engineering in delivery of quality consumer products this expansive resource covers the development and design of procedures equipment and systems utilized in the production and conversion of raw materials into food and nonfood consumer goods With nearly 2000 photographs figures tables and equations including 128 color figures the book emphasizes and illustrates the various engineering processes associated with the production of materials with agricultural origin With contributions from more than 350 experts and featuring more than 200 entries and 3600 references this is the largest and most comprehensive guide on raw production technology

Mathematical Modeling and Scale-Up of Liquid Chromatography Tingyue Gu,2015-04-06 Tingyue Gu s second edition provides a comprehensive set of nonlinear multicomponent liquid chromatography LC models for various forms of LC such as adsorption size exclusion ion exchange reversed phase affinity isocratic gradient elution and axial radial flow LC Much has advanced since the first edition of this book and the author s software described here is now used for teaching and research in 32 different countries This book comes together with a complete software package with graphical user interface for personal computers offered free for academic applications Additionally this book provides detailed methods for parameter estimation of mass transfer coefficients bed voidage particle porosity and isotherms The author gives examples of how to use the software for predicitions and scale up In contrast to the first edition authors do not need to deal with complicated math Instead they focus on how to obtain a few parameters for simulation and how to compare simulation results with experimental data After reading the detailed descriptions in the book a reader is able to use the simulation software to investigate chromatographic behavior without doing actual experiments This book is aimed at readers who are interested in

learning about LC behaviors and at those who want to scale up LC for preparative and large scale applications Both academic personnel and industrial practitioners can benefit from the use of the book This new edition includes New models and software for pellicular cored beads in liquid chromatography Introduction of user friendly software with graphical user interface Detailed descriptions on how to use the software Step by step instructions on parameter estimation for the models New mass transfer correlations for parameter estimation Experimental methods for parameter estimation Several actual examples using the model for product development and scale up Updated literature review

Unit Operations of Chemical Engineering Warren Lee McCabe, Julian Cleveland Smith, Peter Harriott, 2001 The seventh edition of Unit Operations of Chemical Engineering contains new material throughout the textbook and many additional problems However the basic structure general level of treatment and overall length are largely unchanged This is an introductory text written for undergraduates in their junior or senior year who have completed the usual courses in mathematics chemistry physics and an introduction to chemical engineering An elementary knowledge of the above mentioned subjects and energy balances is assumed

Book Jacket **Computer Programming Examples for Chemical Engineers** George Ross, 1987 Written by a chemical engineer rather than by a computer scientist this book fills the gap between texts which teach computer languages or programming methods and chemical engineering texts which omit details of writing programs In order to write a computer program and get it to work general theoretical principles are not enough one has to actually do the job This is done in each case by first taking the reader through a manual calculation then presenting a computer program to perform the same task Explanation of how the program operates is given in some detail Topics discussed in this way include computer flowsheeting interpretation and accessing of results and physical data forward feed multi effect evaporation binary distillation linear programming introduction to finite differences with simple heat exchanger example steady state multi dimensional heat conduction unsteady state heat conduction solution of automatic control problems using finite differences In each case the necessary theory is fully introduced The programs are written in BASIC an easily learnt moderately powerful language available on both mainframe and desk top computers

Computer Methods in Chemical Engineering Nayef Ghasem, 2011-08-25 While various software packages have become quite useful for performing unit operations and other kinds of processes in chemical engineering the fundamental theory and methods of calculation must also be understood in order to effectively test the validity of these packages and verify the results Computer Methods in Chemical Engineering presents the most commonly used simulation software along with the theory involved It covers chemical engineering thermodynamics fluid mechanics material and energy balances mass transfer operations reactor design and computer applications in chemical engineering Through this book students learn What chemical engineers do The functions and theoretical background of basic chemical engineering unit operations How to simulate chemical processes using software packages How to size chemical process units manually and with software How to fit experimental data How to solve linear

and nonlinear algebraic equations as well as ordinary differential equations Along with exercises and references each chapter contains a theoretical description of process units followed by numerous examples that are solved step by step via hand calculations and computer simulation using Hysys Unisim PRO II Aspen Plus and SuperPro Designer Adhering to the Accreditation Board for Engineering and Technology ABET criteria the book gives students the tools needed to solve real problems involving thermodynamics and fluid phase equilibria fluid flow material and energy balances heat exchangers reactor design distillation absorption and liquid liquid extraction

Chemical Engineering Education ,1996

Transport Processes Christie J. Geankoplis,1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

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General Catalogue of Printed Books 1976 to 1982 British Library,1983

Numerical Methods for Chemical

Engineers with MATLAB Applications A. Constantinides,Navid Mostoufi,1999 Master numerical methods using MATLAB today s leading software for problem solving This complete guide to numerical methods in chemical engineering is the first to take full advantage of MATLAB s powerful calculation environment Every chapter contains several examples using general MATLAB functions that implement the method and can also be applied to many other problems in the same category The authors begin by introducing the solution of nonlinear equations using several standard approaches including methods of successive substitution and linear interpolation the Wegstein method the Newton Raphson method the Eigenvalue method and synthetic division algorithms With these fundamentals in hand they move on to simultaneous linear algebraic equations covering matrix and vector operations Cramer s rule Gauss methods the Jacobi method and the characteristic value problem Additional coverage includes Finite difference methods and interpolation of equally and unequally spaced points Numerical differentiation and integration including differentiation by backward forward and central finite differences Newton Cotes formulas and the Gauss Quadrature Two detailed chapters on ordinary and partial differential equations Linear and nonlinear regression analyses including least squares estimated vector of parameters method of steepest descent Gauss Newton method Marquardt Method Newton Method and multiple nonlinear regression The numerical methods covered here represent virtually all of those commonly used by practicing chemical engineers The focus on MATLAB enables readers to accomplish more with less complexity than was possible with traditional FORTRAN For those unfamiliar with MATLAB a brief introduction is provided as an Appendix Over 60 MATLAB examples methods and function scripts are covered and all of them are included on the book s CD

Applied Mechanics Reviews ,1993

The Principles of Thermal Sciences and

Their Application to Engineering John Clifford Jones,2000 An integrated approach to thermodynamics and heat transfer suitable for undergraduates in engineering and fuel science

British Books in Print ,1985

Comprehensive

Biotechnology: The principles of biotechnology Murray Moo-Young,1985 V 1 The principles of biotechnology Scientific fundamentals v 2 The principles of biotechnology Engineering considerations v 3 The practice of biotechnology Current

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