

Solutions Manual to Accompany

Basic Principles and Calculations in Chemical Engineering

Seventh Edition

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PRENTICE HALL
Professional Technical Reference
Upper Saddle River, New Jersey 07458

TYPICAL EXAMS FOR A ONE SEMESTER COURSE (scheduled in the evening to avoid time constraints on students)

Exam No. 1 (Open Book, 1 1/2 hours)

PROBLEM 1 (35%)

Hydrogen can be separated from natural gas by diffusion through a metal tube. The rate of separation is given by

$$N = 2 \pi D_p R$$

where

- N = rate of transport of H_2 from the tube, g moles/(sec)(cm of length of tube)
- D = diffusion coefficient
- p = molar density of H_2 , g moles/cm³
- R = log mean radius of tube, $r_2 - r_1 / \ln \left(\frac{r_2}{r_1} \right)$, with r in cm.

What are the units of D ?

PROBLEM 2 (35%)

A pellet of bones weighing 10 tons is dropped from a lift truck from a height of 10 feet. The maximum velocity that pellet attains before hitting the ground is 8 ft/sec. How much kinetic energy does the pellet have in (ft)(lb) at this velocity?

PROBLEM 3 (25%)

The specific gravity of a fuel oil is 0.82. What is the density of the oil in lb/ft³? Show all units.

PROBLEM 4 (35%)

Sulfur trioxide (SO_3) can be absorbed in sulfuric acid solution to form more concentrated sulfuric acid. If the gas to be absorbed contains 10% SO_3 , 40% H_2 , 3% SO_2 , and 47% O_2 , how many parts per million of O_2 are there in the gas? (b) What is the composition of the gas on a H_2 free basis?

PROBLEM 5 (35%)

You have 100 kilograms of gas of the following composition:

CH_4	30%
H_2	10%
N_2	60%

What is the average molecular weight of this gas?

PROBLEM 6 (25%)

If the heat capacity of a substance is 3.32 Btu/(°C) and its molecular weight is 25.4, what is its heat capacity in

- (a) Btu/(°F)
- (b) Btu/(°C)
- (c) J/gm(°C)

PROBLEM 7 (35%)

A rock containing 100% $BaSO_4$ is heated with coke (94% C, 6% ash) and the composition of the product is $BaSO_4$ (11.0%), BaS (70.9%), C (11.9%), ash (2.2%). The reaction is



Calculate the percent excess reactant, and the degree of completion of the reaction.

PROBLEM 8 (35%)

A gas cylinder to which is attached an Bourdon gage appears to be at a pressure of 21.38 in. Hg at 70°F. The thermometer reads 101.8 kPa. A student claims that the pressure in the tank is 1.3 psia, but another student points out that this is impossible - the pressure is really 28.2 psia. Can 1.3 psia be correct? Explain and show calculations to back up your explanation.

Solution Manual For Himmelblau

Michal Rosen-Zvi



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Solutions Manual David M. Himmelblau, 1962 **Numerical Methods for Engineers** Santosh K Gupta, 1995 This Book Is Intended To Be A Text For Either A First Or A Second Course In Numerical Methods For Students In All Engineering Disciplines Difficult Concepts Which Usually Pose Problems To Students Are Explained In Detail And Illustrated With Solved Examples Enough Elementary Material That Could Be Covered In The First Level Course Is Included For Example Methods For Solving Linear And Nonlinear Algebraic Equations Interpolation Differentiation Integration And Simple Techniques For Integrating Odes And Pdes Ordinary And Partial Differential Equations Advanced Techniques And Concepts That Could Form Part Of A Second Level Course Include gears Method For Solving Ode Ivps Initial Value Problems Stiffness Of Ode Ivps Multiplicity Of Solutions Convergence Characteristics The Orthogonal Collocation Method For Solving Ode Bvps Boundary Value Problems And Finite Element Techniques An Extensive Set Of Graded Problems Often With Hints Has Been Included Some Involve Simple Applications Of The Concepts And Can Be Solved Using A Calculator While Several Are From Real Life Situations And Require Writing Computer Programs Or Use Of Library Subroutines Practice On These Is Expected To Build Up The Reader S Confidence In Developing Large Computer Codes

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

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connect them with the material and energy concerns of the 21st century Chemical Engineering Education ,1996

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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 **Solutions Manual of Basic Principles and Calculations in Chemical**

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Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June

Encyclopedia of Chemical Processing and Design John J. McKetta Jr,1980-01-01 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries *The Method of Response Function in Psychology & Sociology* Irina G. Malkina-Pykh,Y. A. Pykh,2013 Social psychological and sociological systems present considerable difficulties for modellers due to their complexity multidimensionality uncertainty and irreducibility The book proposes that response functions MRF be used as a method of constructing purposeful credible and integrated social systems models from data and prior knowledge or information A semi empirical or grey box MRF model may be regarded as a trade off between a knowledge based model and a black box empirical model It may embody all the existing knowledge on the process or a part thereof and in addition it relies on parameterised functions whose parameters are determined from measurements Observations contain hidden information on the processes under consideration and one of the main purposes of the proposed method is to extract and describe these hidden relationships Parameterisation offers ways to couple qualitative with quantitative analysis This combination makes it possible to take into account all the phenomena that are not modelled with the required accuracy through prior knowledge Although only a simplified picture of the processes is modelled a grey box system model provides some insight into the system processes These processes are featured by chains of causality highlighting stressors and variables responsive to stressors The method of response functions is a nonlinear regression method that implies credible models in the sense that they are identifiable and hopefully explain system output behaviour satisfactorily For case studies the authors have selected the problems usually studied by psychologists and sociologists with statistical procedures such as investigation of variance and discriminant analysis based on the general linear model or one of its multivariate generalisations structural equation models etc disordered eating and obesity

subjective well being and alexithymia An accompanying CD ROM contains the demonstration versions of three models that are discussed in the various chapters The Method of Response Functions in Psychology and Sociology is aimed at Mathematical Psychologists Mathematical Sociologists Applied Psychologists Sociologists and Social Practitioners It will also be suitable for use on undergraduate as well as graduate and postgraduate courses specializing in these areas AB Bookman's Weekly ,1992 **Research in Education** ,1973-12 **Resources in Education** ,1973 American Book Publishing Record Cumulative, 1950-1977: Title index R.R. Bowker Company. Department of Bibliography,1978

Structural Dynamic Systems Com Cornelius T. Leondes,1999-01-27 The availability of powerful computers along with highly effective computational techniques have allowed computer aided design and engineering of structural dynamics systems to achieve a high level of capability and importance This volume clearly reveals the great significance of these techniques and the essential role they will play in the future as further development occurs This will be a significant and unique reference for students research workers practitioners computer scientists and others for years to come Lees' Loss Prevention in the Process Industries Frank Lees,2005-01-10 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world s chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field **ICGG 2018 - Proceedings of the 18th International Conference on Geometry and Graphics** Luigi Cocchiarella,2018-07-06 This book gathers peer reviewed papers presented at the 18th International Conference on Geometry and Graphics ICGG held in Milan Italy on August 3 7 2018 The spectrum of papers ranges from theoretical research to applications including education in several fields of science

technology and the arts The ICGG 2018 mainly focused on the following topics and subtopics Theoretical Graphics and Geometry Geometry of Curves and Surfaces Kinematic and Descriptive Geometry Computer Aided Geometric Design Applied Geometry and Graphics Modeling of Objects Phenomena and Processes Applications of Geometry in Engineering Art and Architecture Computer Animation and Games Graphic Simulation in Urban and Territorial Studies Engineering Computer Graphics Computer Aided Design and Drafting Computational Geometry Geometric and Solid Modeling Image Synthesis Pattern Recognition Digital Image Processing and Graphics Education Education Technology Research Multimedia Educational Software Development E learning Virtual Reality Educational Systems Educational Software Development Tools MOOCs Given its breadth of coverage the book introduces engineers architects and designers interested in computer applications graphics and geometry to the latest advances in the field with a particular focus on science the arts and mathematics education

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