

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_p = 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_p ?

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) Btu/(lb)(°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.

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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

Tubular Heat Exchangers Samuel Jorge Marques Cartaxo, 2022-04-19 This book explains basics from physical chemistry and fluid mechanics to understand construct and apply tubular heat exchangers for the chemical industry Examples from practice highlight the required equations physical properties and raise critical steps for the design of for example tubular double pipe multi tubes and finned heat exchangers Exercises and corresponding solutions deepen the gained knowledge and clarify the described theory

Model-Based Optimization for Petroleum Refinery Configuration Design Cheng Seong Khor, 2024-01-03 Model Based Optimization for Petroleum Refinery Configuration Design An accessible easy to read introduction to the methods of mixed integer optimization with practical applications real world operational data and case studies Interest in model based approaches for optimizing the design of petroleum refineries has increased throughout the industry in recent years Mathematical optimization based on mixed integer programming has brought about the superstructure optimization method for synthesizing petroleum refinery configurations from multiple topological alternatives Model Based Optimization for Petroleum Refinery Configuration Design presents a detailed introduction to the use of mathematical optimization to solve both linear and nonlinear problems in the refining industry The book opens with an

overview of petroleum refining processes basic concepts in mathematical programming and applications of mathematical programming for refinery optimization Subsequent chapters address superstructure representations of topological alternatives mathematical formulation solution strategies and various modeling frameworks Practical case studies demonstrate refinery configuration design refinery retrofitting and real world issues and considerations Presents linear nonlinear and mixed integer programming approaches applicable to both new and existing petroleum refineries Highlights the benefits of model based solutions to refinery configuration design problems Features detailed case studies of the development and implementation of optimization models Discusses economic considerations of heavy oil processing including cash flow analysis of refinery costs and return on capital Includes numerical examples based on real world operational data and various commercial technologies Model Based Optimization for Petroleum Refinery Configuration Design is an invaluable resource for researchers chemical engineers process and energy engineers other refining professionals and advanced chemical engineering students

19th European Symposium on Computer Aided Process Engineering Jacek Jezowski, Jan Thullie, 2009-06-12 The 19th European Symposium on Computer Aided Process Engineering contains papers presented at the 19th European Symposium of Computer Aided Process Engineering ESCAPE 19 held in Cracow Poland June 14 17 2009 The ESCAPE series serves as a forum for scientists and engineers from academia and industry to discuss progress achieved in the area of CAPE CD ROM that accompanies the book contains all research papers and contributions International in scope with guest speeches and keynote talks from leaders in science and industry Presents papers covering the latest research key top areas and developments in computer aided process engineering CAPE

Nonlinear Programming Lorenz T. Biegler, 2010-10-14 A comprehensive treatment of nonlinear programming concepts and algorithms especially as they apply to challenging applications in chemical process engineering

Chemical Engineering: Chemical engineering design John Metcalfe Coulson, John Francis Richardson, 1993

Identification for Automotive Systems Daniel Alberer, Håkan Hjalmarsson, Luigi del Re, 2011-12-04 Increasing complexity and performance and reliability expectations make modeling of automotive system both more difficult and more urgent Automotive control has slowly evolved from an add on to classical engine and vehicle design to a key technology to enforce consumption pollution and safety limits Modeling however is still mainly based on classical methods even though much progress has been done in the identification community to speed it up and improve it This book the product of a workshop of representatives of different communities offers an insight on how to close the gap and exploit this progress for the next generations of vehicles

AIChE Symposium Series American Institute of Chemical Engineers, 1998

MEMBANGUN INDUSTRI SUSU STERILISASI SKALA IKM Tri Yuni Hendrawati, 2017-08-31 Susu merupakan bahan makanan yang bernilai gizi tinggi karena mengandung komponen penting yaitu protein lemak vitamin mineral laktosa serta enzim enzim dan beberapa jenis mikroba yang bermanfaat bagi kesehatan sebagai probiotik Namun hal ini tidak ada artinya bila susu tidak aman dikonsumsi atau tidak aman bagi kesehatan Salah

satu upaya yang dapat dilakukan agar susu aman dikonsumsi adalah dengan melakukan sterilisasi Sterilisasi susu adalah proses pengawetan susu yang dilakukan dengan cara memanaskan susu sampai mencapai suhu diatas titik didih sehingga bakteri maupun kuman dan spora mati Cara sterilisasi susu memerlukan peralatan khusus dan perlu didesign untuk skala kecil menengah sehingga dapat diterapkan di kelompok peternak KUD Susu di daerah penghasil terutama pada penelitian di daerah Boyolali Jawa Tengah Industri ini mempunyai peluang besar dalam upaya penyediaan produk susu bagi 220 juta penduduk Indonesia yang saat ini konsumsi rata rata susu hanya mencapai 12 85 kg kapita tahun masih jauh dibawah negara ASEAN lainnya antara lain Philipina 20 kg Malaysia 20 kg Thailand 20 25 kg Singapura 32 kg Industri Pengolahan Susu IPS memiliki keterkaitan yang dapat menimbulkan multiplier effect yang cukup besar bagi pembangunan industri persusuan di Indonesia Hal ini meliputi keterkaitan kedepan forward linkage dengan kegiatan budidaya sapi perah yang masih didominasi oleh peternakan rakyat serta keterkaitan kebelakang backward linkage dengan industri penyediaan sarana dan prasarana pemerahan pengemasan transportasi serta lainnya Berbagai uraian tersebut diatas telah menjadi latar belakang adanya kegiatan Studi Kelayakan dan Perancangan Detailed Engineering Design DED Industri Susu Sterilisasi Skala IKM menjadi sangat penting dilakukan mengingat saat ini sebagian besar komoditi susu segar dari berbagai daerah di Jawa hanya diserap oleh Industri Pengolahan Susu IPS skala besar

Process Control and Management P.L. Lee,R.B. Newell,I.T.

Cameron,1998 The purpose of this book is to provide a balanced introduction to process control and management aimed at the general process engineer Rapid changes have occurred in process control over the past decade mainly because of the deployment of robust and effective digital control equipment and the development of the models which underpin the area Historically process control was seen as simply the maintenance of particular process variables at appropriate setpoints This very narrow view has been superseded by the view that process control involves the regulation of any given process in the context of a complete processing plant to maximise the economic return from the plant This wider definition brings into play a range of control regimes from basic regulatory control through advanced regulatory control to complex process management The organization of the book reflects this hierarchy and is thus split into 3 parts covering basic regulatory control advanced process control and finally process management The book is completed by the inclusion of several useful appendices covering mathematical modelling process optimisation and simulation

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Computer-oriented Process Engineering L. Puigjaner,A. Espuña,1991 The proceedings of COPE 91 represent the continuing effort of both the scientific and industrial community to make known what is new in research and development in the increasingly important interdisciplinary field of computers in chemical engineering The symposium focussed on the following topics Artificial Intelligence in Chemical Engineering Computer Integrated Process Engineering Reliability and Risk Assessment Process Design under Uncertainty Education and Training in

Computer Applications The theoretical and practical aspects of the use of computers in chemical engineering covered in this book should find wide use in libraries and research facilities and should have a direct impact in the chemical industry particularly in production automation utility networks and computer integrated process engineering **Subject Guide to Books in Print** ,1975 **Computers in Chemical Engineering Education** Brice Carnahan,1996 Very Good No Highlights or Markup all pages are intact *AB Bookman's Weekly* ,1992 Solution Manual to Accompany Basic Principles and Calculations in Chemical Engineering David Mautner Himmelblau,James B. Riggs,2004-01 *Resources in Education* ,1973 CJChE ,1999-02 **Research in Education** ,1973-12

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Table of Contents Solution Manual For Edgar Himmelblau

1. Understanding the eBook Solution Manual For Edgar Himmelblau
 - The Rise of Digital Reading Solution Manual For Edgar Himmelblau
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual For Edgar Himmelblau
 - 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 Solution Manual For Edgar Himmelblau
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual For Edgar Himmelblau
 - Personalized Recommendations

- Solution Manual For Edgar Himmelblau User Reviews and Ratings
- Solution Manual For Edgar Himmelblau and Bestseller Lists
- 5. Accessing Solution Manual For Edgar Himmelblau Free and Paid eBooks
 - Solution Manual For Edgar Himmelblau Public Domain eBooks
 - Solution Manual For Edgar Himmelblau eBook Subscription Services
 - Solution Manual For Edgar Himmelblau Budget-Friendly Options
- 6. Navigating Solution Manual For Edgar Himmelblau eBook Formats
 - ePub, PDF, MOBI, and More
 - Solution Manual For Edgar Himmelblau Compatibility with Devices
 - Solution Manual For Edgar Himmelblau Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual For Edgar Himmelblau
 - Highlighting and Note-Taking Solution Manual For Edgar Himmelblau
 - Interactive Elements Solution Manual For Edgar Himmelblau
- 8. Staying Engaged with Solution Manual For Edgar Himmelblau
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual For Edgar Himmelblau
- 9. Balancing eBooks and Physical Books Solution Manual For Edgar Himmelblau
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual For Edgar Himmelblau
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual For Edgar Himmelblau
 - Setting Reading Goals Solution Manual For Edgar Himmelblau
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual For Edgar Himmelblau
 - Fact-Checking eBook Content of Solution Manual For Edgar Himmelblau

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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web an initiative by bcm institute and accredited as a competency based training course by skillsfuture singapore ssg the developing a bcm training and learning roadmap is a 1 day course aimed at equipping designated business continuity management bcm manager together with their human resource counterparts to develop and implement a

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web jul 4 2023 select the bcm programming option on the sps supported controllers screen choose the bcm body control module programming option and follow the on screen instructions select the bcm setup option on the sps supported

controllers screen choose the bcm body control module setup option and follow the on screen

bcm removal replacement pontiac solstice forum - Dec 06 2022

web oct 21 2023 correct me if i m wrong but once a bcm has a vin programmed into it there s no turning back on that bcm correct i saw a yt vid where someone needed to desolder the chip that holds the vin info and solder it on to a donor bcm and the only way to program a vin to a bcm is if the bcm hadn t been programmed yet

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web dec 23 2022 4001 posts joined 2020 3 dec 20 2022 kgschlosser it s a valid point you make afaik gm ecm s have both a part no which denotes the hardware of the module and a service no which defines the software operating system calibration in gm language that is programmed intl the hardware

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web may 13 2015 body control module bcm programming rpo configuration ecm pim bcm security link if the engine control module ecm powertrain interface module pim and or the body control module bcm are replaced the new modules must be security linked to each other

programming a bcm body control modual firebird nation - May 31 2022

web mar 7 2010 programming a bcm body control modual i recently purchased a 97 firebird i have a keyless entry remote for it but i cant get into the bcm setup to program the remote i know you have to take out the radio fuse and turn the ignition on and off three times to get into the setup this does nothing

body control module repair reman services - Apr 29 2022

web a body control module bcm is a computer component in an automobile that checks regulates and operates electronic devices throughout the car typically in a car the bcm controls the power windows power mirrors air conditioning immobilizer system central locking etc the bcm communicates with other on board computers via the car s

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web jan 11 2023 how to tell body control module bcm failed and should be replaced and reprogrammed in this video i will explain the function frequent problems you may encounter and what repair is necessary

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web may 28 2015 it goes a long way alpha u easiest fix to your power steering tcm no speedometer odometer no shift what

youll need 1 4 inch nut and bolt 1 2 feet of automobile wire socket wrench still

body control module grand prix forums - Sep 03 2022

web 11 16 2011 i have a 2008 gxp i was rear ended and pushed into the car in front of me immediately after the accident my key fob no longer worked a few dash lights stopped working and my washer pump quit working the dealer ran a diagnostic check for the insurance company and said that my bcm was malfunctioning causing all the issues

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web dec 28 2010 so when i am in 04 and at the body section i can see the bcm inputs outputs etc but if i try to communicate with the bcm such as configuring options in the bcm as soon as i hit the key to save options i get the unable to communicate check aldl screen along with the non communication beep from the tech 2

replace bcm on 08 gtp pontiac g6 forum - Nov 05 2022

web jun 18 2010 if you had a key from the donor car and cut a blank without the transponder you would be able to reprogram the bcm yourself to match your keys other stuff like resetting the vin so your radio would work and programming it so your keyless entry and start if equipped will work require a tech ii programmer

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web jan 2 2023 the bcm that is being sold is for cars that do not have power windows the bcm will work in the vehicle and the power windows can be wired up externally to the bcm so in a bind it will work you would have to add 2 relays for each window at the bcm and connect the wires for the window switches to the relays

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web description reviews 0 description wams spec bcm programming includes the following features full drl delete both the annoying indicator on the dash and the actual drl operation turn signals and tail lamps about 10 brighter ability to turn fogs highs and lows all on at the same time really bright

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web the objectives of this subject is to equip students with the 1 knowledge in increasing organisational survivability and resiliency through business continuity management bcm system tools used in risk analysis framework the systematic logical sequence of actions that leads from one phase to the next phase in the bcm planning methodology