

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 (25%)**

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

$$N = 2 \pi DpR$$

where  
 $N$  = rate of transport of  $H_2$  from the tube, g moles/decade (of length of tube)  
 $D$  = diffusion coefficient  
 $p$  = molar density of  $H_2$ , g moles/cm<sup>3</sup>  
 $R$  = log mass radius of tube,  $r_2 - r_1$  is  $\left(\frac{L^2}{r_2}\right)$ , with  $L$  in cm.

What are the units of  $D$ ?

**PROBLEM 2 (25%)**

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 (Joules) 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/ft<sup>3</sup>? Show all units.

**PROBLEM 4 (25%)**

Sulfur trioxide ( $SO_3$ ) can be absorbed in sulfuric acid solution to form more concentrated sulfuric acid. If the gas to be absorbed contains 55%  $SO_3$ , 41%  $N_2$ , 3%  $SO_2$ , and 1%  $O_2$ , how many parts per million of  $O_2$  are there in the gas? (a) What is the composition of the gas on a % free basis?

**PROBLEM 5 (25%)**

You have 100 kilograms of gas of the following composition:

$CH_4$	30%
$H_2$	20%
$N_2$	50%

What is the average molecular weight of this gas?

**PROBLEM 6 (25%)**

If the heat capacity of a substance is 3.22 J/g(°C) and its molecular weight is 75.4, what is its heat capacity in

(a) Btu(°F)
(b) J/kg(°K)
(c) J/gmol(°K)

**PROBLEM 7 (25%)**

A rock containing 100%  $BaSO_4$  is heated with coke (94% C, 6% ash) and the composition of the product is  $BaSO_4$  (11.5%),  $BaS$  (72.9%), C (13.9%), ash (2.2%). The reaction is



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

**PROBLEM 8 (25%)**

A gas cylinder to which is attached an Bourdon gauge appears to be at a pressure of 21.38 in. Hg at 70°F. The barometer reads 141.8 inHg. 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 Basic Principles Himmelblau Ed 6

**Michael Seilmaier**



## **Solution Basic Principles Himmelblau Ed 6:**

Chemical Process Safety Daniel A. Crowl, Joseph F. Louvar, 2001-10-16 Combines academic theory with practical industry experience Updated to include the latest regulations and references Covers hazard identification risk assessment and inherent safety Case studies and problem sets enhance learning Long awaited revision of the industry best seller This fully revised second edition of *Chemical Process Safety Fundamentals with Applications* combines rigorous academic methods with real life industrial experience to create a unique resource for students and professionals alike The primary focus on technical fundamentals of chemical process safety provides a solid groundwork for understanding with full coverage of both prevention and mitigation measures Subjects include Toxicology and industrial hygiene Vapor and liquid releases and dispersion modeling Flammability characterization Relief and explosion venting In addition to an overview of government regulations the book introduces the resources of the AIChE Center for Chemical Process Safety library Guidelines are offered for hazard identification and risk assessment The book concludes with case histories drawn directly from the authors experience in the field A perfect reference for industry professionals *Chemical Process Safety Fundamentals with Applications* Second Edition is also ideal for teaching at the graduate and senior undergraduate levels Each chapter includes 30 problems and a solutions manual is now available for instructors

*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 Engineering Design and Analysis** T. Michael Duncan, Jeffrey A. Reimer, 2019-01-24 The go to guide to learn the principles and practices of design and analysis in chemical engineering *Books in Print*, 1981

**Books in Print Supplement**, 1985

**Solution Manual to Accompany Basic Principles and Calculations in Chemical Engineering** David Mautner Himmelblau, James B. Riggs, 2004-01 *AIChEMI Modular Instruction* American Institute of Chemical Engineers, 1981

*Standard Handbook of Petroleum and Natural Gas Engineering* William C. Lyons, Gary J Plisga BS, 2011-03-15 This new edition of the *Standard Handbook of Petroleum and Natural Gas Engineering* provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this text is a handy and valuable reference Written by over a dozen leading industry experts and academics the *Standard Handbook of Petroleum and Natural Gas Engineering* provides the best most comprehensive

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Solution Basic Principles Himmelblau Ed 6: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Solution Basic Principles Himmelblau Ed 6 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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