

Chapter 2

2-1. Use Eq. (2-10) noting that

$1 \text{ g/cm}^3 = 1000 \text{ kg/m}^3$. Quantities needed are:

$g = 9.80665 \text{ m/s}^2$ (Eq. (1-13)) $R_m = 0.2 \text{ m}$

$$\begin{aligned} P_a - P_b &= 9.80665 \times 0.2 (13.6 - 1.6) 1000 \\ &= 23536 \text{ kg} \cdot \text{m/m}^2 \cdot \text{s}^2 = 23536 \text{ N/m}^2 \end{aligned}$$

2-2. Find a relation between temperature and elevation.

From the given conditions:

$$\frac{dT}{dz} = - \frac{5}{1000} = -0.005$$

Integrating between limits, setting $T = 288\text{K}$ at $z = 0$ gives

$$T = 288 - 0.005z$$

Substituting for T in Eq. (2-6) and integrating gives

$$\int_{P_a}^{P_b} \frac{dP}{P} = - \frac{gM}{R} \int_{z_a}^{z_b} \frac{dz}{288 - 0.005z}$$

Since $z_a = 0$

$$\ln \frac{P_a}{P_b} = \frac{gM}{0.005R} \ln \frac{288}{288 - 0.005z_b}$$

Mccabe Solutions Manual

Ellen Gundlach



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Unit operations of chemical engineering Warren L. McCabe, Julian C. Smith, Peter Harriott, 1985 Solutions Manual to Accompany Unit Operations of Chemical Engineering, 3d Edition Warren Lee McCabe, Julian Cleveland Smith, 1976

An Introduction to Applied Statistical Thermodynamics Stanley I. Sandler, 2010-11-16 With the present emphasis on nano and bio technologies molecular level descriptions and understandings offered by statistical mechanics are of increasing interest and importance This text emphasizes how statistical thermodynamics is and can be used by chemical engineers and physical chemists The text shows readers the path from molecular level approximations to the applied macroscopic thermodynamic models engineers use and introduces them to molecular level computer simulation Readers of this book will develop an appreciation for the beauty and utility of statistical mechanics 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 Student Solutions Manual for Moore, McCabe, Duckworth, and Alwan's The Practice of Business Statistics Ellen Gundlach, 2009 *Research on Professional Responsibility and Ethics in Accounting* Cynthia Jeffrey, 2010-01-20 Presents the research and cases that focus on the professional responsibilities of accountants and how they deal with the ethical issues they face This title features articles on a broad range of important topics including professionalism social responsibility ethical judgment and accountability The Publishers' Trade List Annual , 1893 **The Practice of Business Statistics Case Book** William I. Notz, David S. Moore, Elizabeth A. Stasny, Dennis K. Pearl, 2003-04-25 This supplement that gives students the opportunity to apply some of the statistical methods they've learned from the book Cases come from the EESEE applications Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1957 **Solution-Focused Brief Therapy** Cynthia Franklin, 2012 Therapy is frequently miscast as requiring an enormous amount of time and financial commitment but helpful goal oriented therapy can produce positive results after only a few sessions By focusing on solutions instead of problems SFBT asks clients to set concrete goals and to draw upon strengths in their lives that can help bring about the desired change for a preferred future Separation Process Engineering Phillip C. Wankat, 2006-08-11 The Comprehensive Introduction to Standard and Advanced Separation for Every Chemical Engineer Separation Process Engineering Second Edition helps readers thoroughly master both standard equilibrium staged separations and the latest new processes The author explains key separation process with exceptional clarity realistic examples and end of chapter simulation exercises using Aspen Plus The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems Next it introduces each leading processes including advanced processes such as membrane separation adsorption and chromatography For each process the author presents essential principles techniques and equations as well as detailed examples Separation Process Engineering is the new thoroughly updated edition of the author's previous book Equilibrium

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