

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 $z_a = 0$

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

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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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web materials 60 red beads 60 yellow beads 4 magnetic centromeres dry erase board desk dry erase marker eraser procedure answer all questions in your journals please 1 create four homologous chromosomes using the red beads for the paternal chromosome and the yellow beads for the maternal chromosome

chapter 11 lab modeling meiosis mr evans biology class - May 24 2022

web problem how does meiosis increase genetic variation introduction most cells in organisms that reproduce sexually are diploid they have two sets of chromosomes and two complete sets of genes gametes are an exception gametes are the cells that combine during sexual reproduction in animals these cells are called sperm and eggs

2 2 3 lab modeling meiosis dry lab the living earth sem 1 - Feb 01 2023

web the answer is meiosis cells in reproductive organs undergo meiosis as they divide to form germ cells that mature into gametes egg cells or sperm cells this diagram compares the processes of mitosis and meiosis in this descriptive lab you will model meiosis that begins in a cell of the fruit fly *Drosophila melanogaster* you will use

mitosis and meiosis lab pre lab questions what are studocu - Sep 08 2023

web a in meiosis I homologous chromosomes separate while in meiosis II sister chromatids separate meiosis II produces 4 haploid daughter cells but meiosis I produces 2 diploid daughter cells crossing over only occurs in meiosis I why do you use non sister chromatids to demonstrate crossing over a

meiosis cell division biology article khan academy - Mar 22 2022

web how meiosis reduces chromosome number by half crossing over meiosis I meiosis II and genetic variation introduction mitosis is used for almost all of your body's cell division needs

lab 3 mitosis and meiosis escience labs studocu - Aug 27 2022

web lab 1 intro to science science lab cell cycle mitosis meiosis what are chromosomes made of compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells

6 4 meiosis teacher s preparation notes biology libretexts - Dec 31 2022

web jul 11 2023 students use model chromosomes to simulate the processes of meiosis and fertilization as they model meiosis and fertilization students follow the alleles of three human genes from the parents body

7 3 modeling mitosis and meiosis activity biology libretexts - May 04 2023

web mar 23 2021 simulate mitosis move the chromosomes through each of the four stages of mitosis draw and label the pop bead chromosomes for one of the phases on a separate sheet it is not necessary to draw each individual bead draw a large circle on the paper to represent the cell and the nucleus with a pencil

lab 8 the modeling and microscopic observation of mitosis and meiosis - Mar 02 2023

web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells