

Basic Transport Phenomena in Biomedical Engineering 4th Edition Fournier Solutions Manual

Chapter 1 Solutions

Problem 1.1. Use the conversion factors

$$\frac{8.314\text{J}}{\text{mol K}} \times \frac{0.23901\text{cal}}{\text{J}} = 1.987 \frac{\text{cal}}{\text{mol K}}$$

Problem 1.2. Use Equation 1.2 to convert the temperature to degrees Celsius

$$t^{\circ}\text{C} = \frac{5}{9}(t^{\circ}\text{F} - 32) = \frac{5}{9}(98.6 - 32) = 37^{\circ}\text{C}$$

Now, use Equation 1.3 to convert the temperature from degrees Celsius to Kelvin

$$T^{\circ}\text{K} = t^{\circ}\text{C} + 273.15 = 37 + 273.15 = 310.15^{\circ}\text{K}$$

Problem 1.3. Use the conversion factors

$$2 \times 10^4 \mu\text{dynes} \times \frac{\text{dynes}}{10^6 \mu\text{dynes}} \times \frac{\text{N}}{10^5 \text{dynes}} \times \frac{\text{kN}}{10^3 \text{N}} = 2 \times 10^{-10} \text{kN}$$

Problem 1.4. Use the conversion factors

$$\frac{27 \mu\text{m}}{\text{hr}} \times \frac{10^{-6} \text{m}}{\mu\text{m}} \times \frac{0.0006214 \text{miles}}{\text{m}} \times \frac{\text{hr}}{60 \text{min}} \times \frac{\text{min}}{60 \text{sec}} = 4.66 \times 10^{-12} \frac{\text{miles}}{\text{sec}}$$

Problem 1.5. Use the conversion factors

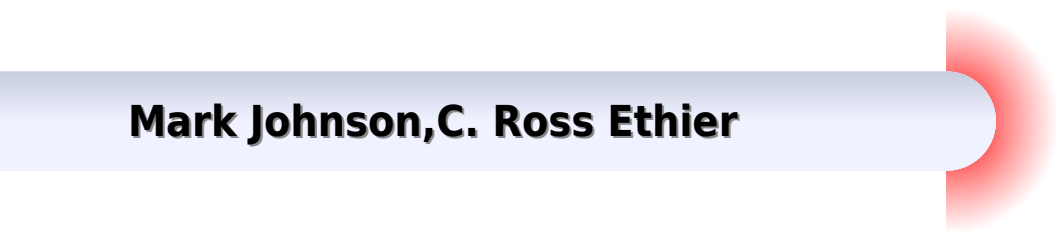
$$48 \text{MW} \times \frac{10^6 \text{W}}{\text{MW}} \times \frac{\text{kg m}^2}{\text{sec}^2 \text{W}} \times \frac{10^3 \text{g}}{\text{kg}} \times \frac{100 \text{cg}}{\text{g}} \times \frac{3600^3 \text{sec}^3}{\text{hr}^3} \times \frac{100^2 \text{cm}^2}{\text{m}^2} = 2.24 \times 10^{27} \frac{\text{cgcm}^2}{\text{hr}^3}$$

$$48 \text{MW} \times \frac{10^6 \text{W}}{\text{MW}} \times \frac{\text{J}}{\text{sec W}} \times \frac{\text{kJ}}{10^3 \text{J}} \times \frac{60 \text{sec}}{1 \text{min}} = 2.88 \times 10^6 \frac{\text{kJ}}{\text{min}}$$

Problem 1.6. Use the conversion factors to get both values into units of mm per second and then compare the two values for the higher value.

Basic Transport Phenomena In Biomedical Engineering Solutions

Mark Johnson, C. Ross Ethier



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Basic Transport Phenomena In Biomedical Engineering Ronald L. Fournier, 1998-08-01 This text combines the basic principles and theories of transport in biological systems with fundamental bioengineering. It contains real world applications in drug delivery systems, tissue engineering and artificial organs. Considerable significance is placed on developing a quantitative understanding of the underlying physical, chemical and biological phenomena. Therefore many mathematical methods are developed using compartmental approaches. The book is replete with examples and problems. *Basic Transport Phenomena in Biomedical Engineering* Ronald L. Fournier, 2017-08-07 This will be a substantial revision of a good selling text for upper division first graduate courses in biomedical transport phenomena offered in many departments of biomedical and chemical engineering. Each chapter will be updated accordingly with new problems and examples incorporated where appropriate. A particular emphasis will be on new information related to tissue engineering and organ regeneration. A key new feature will be the inclusion of complete solutions within the body of the text rather than in a separate solutions manual. Also Matlab will be incorporated for the first time with this Fourth Edition. **Basic Transport Phenomena in Biomedical Engineering, Third Edition** Ronald L. Fournier, 2011-08-26 Encompassing a variety of engineering disciplines and life sciences, the very scope and breadth of biomedical engineering presents challenges to creating a concise entry level text that effectively introduces basic concepts without getting overly specialized in subject matter or rarified in language. *Basic Transport Phenomena in Biomedical Engineering Third Edition* meets and overcomes these challenges to provide the beginning student with the foundational tools and the confidence they need to apply these techniques to problems of ever greater complexity. Bringing together fundamental engineering and life science principles, this highly accessible text provides a focused coverage of key momentum and mass transport concepts in biomedical engineering. It offers a basic review of units and dimensions, material balances and problem solving tips, and then emphasizes those chemical and physical transport processes that have applications in the development of artificial and bioartificial organs, controlled drug delivery systems and tissue engineering. The book also includes a discussion of thermodynamic concepts and covers topics such as body fluids, osmosis and membrane filtration, physical and flow properties of blood, solute and oxygen transport and pharmacokinetic analysis. It concludes with the application of these principles to extracorporeal devices as well as tissue engineering and bioartificial organs. Designed for the beginning student, *Basic Transport Phenomena in Biomedical Engineering Third Edition* provides a quantitative understanding of the underlying physical, chemical and biological phenomena involved. It offers mathematical models using the shell balance or compartmental approaches along with numerous examples and end of chapter problems based on these mathematical models, and in many cases these models are compared with actual experimental data. Encouraging students to work examples with the mathematical software package of their choice, this text provides them the opportunity to explore various aspects of the solution on their own or apply these

techniques as starting points for the solution to their own problems *Transport Phenomena in Biomedical Engineering* Robert A. Peattie, Robert J. Fisher, Joseph D. Bronzino, Donald R. Peterson, 2012-11-20 Design analysis and simulation of tissue constructs is an integral part of the ever evolving field of biomedical engineering The study of reaction kinetics particularly when coupled with complex physical phenomena such as the transport of heat mass and momentum is required to determine or predict performance of biologically based systems whether for research or clinical implementation *Transport Phenomena in Biomedical Engineering Principles and Practices* explores the concepts of transport phenomena alongside chemical reaction kinetics and thermodynamics to introduce the field of reaction engineering as it applies to physiologic systems in health and disease It emphasizes the role played by these fundamental physical processes The book first examines elementary concepts such as control volume selection and flow systems It provides a comprehensive treatment with an overview of major research topics related to transport phenomena pertaining to biomedical engineering Although each chapter is self contained they all bring forth and reinforce similar concepts through applications and discussions With contributions from world class experts the book unmask the fundamental phenomenological events in engineering devices and explores how to use them to meet the objectives of specific applications It includes coverage of applications to drug delivery and cell and tissue based therapies *Transport Phenomena* Larry A. Glasgow, 2010-12-01 Enables readers to apply transport phenomena principles to solve advanced problems in all areas of engineering and science This book helps readers elevate their understanding of and their ability to apply transport phenomena by introducing a broad range of advanced topics as well as analytical and numerical solution techniques Readers gain the ability to solve complex problems generally not addressed in undergraduate level courses including nonlinear multidimensional transport and transient molecular and convective transport scenarios Avoiding rote memorization the author emphasizes a dual approach to learning in which physical understanding and problem solving capability are developed simultaneously Moreover the author builds both readers interest and knowledge by Demonstrating that transport phenomena are pervasive affecting every aspect of life Offering historical perspectives to enhance readers understanding of current theory and methods Providing numerous examples drawn from a broad range of fields in the physical and life sciences and engineering Contextualizing problems in scenarios so that their rationale and significance are clear This text generally avoids the use of commercial software for problem solutions helping readers cultivate a deeper understanding of how solutions are developed References throughout the text promote further study and encourage the student to contemplate additional topics in transport phenomena *Transport Phenomena* is written for advanced undergraduates and graduate students in chemical and mechanical engineering Upon mastering the principles and techniques presented in this text all readers will be better able to critically evaluate a broad range of physical phenomena processes and systems across many disciplines *Nature-Inspired Intelligent Techniques for Solving Biomedical Engineering Problems* Kose, Utku, Guraksin, Gur Emre, Deperlioglu, Omer, 2018-03-31 Technological tools

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Mathematical Methods in Chemical and Biological Engineering Binay Kanti Dutta, 2016-11-03 Mathematical Methods in Chemical and Biological Engineering describes basic to moderately advanced mathematical techniques useful for shaping the model based analysis of chemical and biological engineering systems Covering an ideal balance of basic mathematical principles and applications to physico chemical problems this book presents examples drawn from recent scientific and technical literature on chemical engineering biological and biomedical engineering food processing and a variety of diffusional problems to demonstrate the real world value of the mathematical methods Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications

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