

## Chapter 2 Solutions to Review Problems

### Topic 2.1

- 1)  $c(\text{Al}) = 0.902 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1}$  Convert to molar heat capacity by multiplying by molar mass.  
 $\Delta$  Molar heat capacity  $= 0.902 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1} \times 26.98 \text{ gmol}^{-1} = 24.33 \text{ Jmol}^{-1} \text{ } ^\circ\text{C}^{-1}$   
 $q = \text{moles}c\Delta T = (3.25 \text{ moles} \times 24.33 \text{ Jmol}^{-1} \text{ } ^\circ\text{C}^{-1} \times (46.5 \text{ } ^\circ\text{C} - 24.5 \text{ } ^\circ\text{C})) = 1740 \text{ J} = 1.74 \text{ kJ}$
- 2)  $q = mc\Delta T = 250.0 \text{ J} = (20.00 \text{ g})(0.918 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1})(36.1 - T_0)$   
 $T_0 = 22.5 \text{ } ^\circ\text{C}$
- 3) Assuming that the density of beer is the same as that of water ( $1.00 \text{ gmL}^{-1}$ ), in a 355 mL bottle, there are 355 g of beer.  
 $-(q_{\text{beer}} + q_{\text{water}}) = q_{\text{ice}} \quad \Delta T = 4.0 - 25.0 = -21.0 \text{ } ^\circ\text{C}$   
 $-\left[(mc\Delta T)_{\text{beer}} + (C\Delta T)_{\text{water}}\right] = q_{\text{ice}}$   
 $-\left[(355 \times 4.06 \times (-21.0)) + (250 \times (-21.0))\right] = q_{\text{ice}} = 35517 \text{ J} = 35.5 \text{ kJ}$
- 4) Assume density of water  $= 1.00 \text{ gmL}^{-1}$   
 Let unknown volume of water  $= x \text{ mL} = x \text{ g}$   
 Heat lost by water at  $40.0^\circ \text{C} = \text{Heat gained by water at } 20.0^\circ \text{C}$   
 $\Delta - q (\text{water at } 40^\circ \text{C}) = q (\text{water at } 20^\circ \text{C}) \quad \text{Recall: } q = mc\Delta T$   
 Substitute:  $-(50 \text{ g} \times 4.18 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1} \times (24.5 - 40.0) \text{ } ^\circ\text{C}) = (x \text{ g} \times 4.18 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1} \times (24.5 - 20.0) \text{ } ^\circ\text{C})$   
 $x = 172.2 \text{ g} = 172 \text{ mL}$
- 5) Heat lost by metal alloy  $= \text{Heat gained by water}$   
 $\Delta - q (\text{metal alloy}) = q (\text{water}) \quad \text{Recall: } q = mc\Delta T$   
 Substitute:  $-((35 \text{ g})(c_{\text{alloy}})(32 \text{ } ^\circ\text{C} - 95 \text{ } ^\circ\text{C})) = ((50 \text{ g})(4.18 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1})(32 \text{ } ^\circ\text{C} - 20 \text{ } ^\circ\text{C}))$   
 $c_{\text{alloy}} = 1.14 \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1}$
- 6) Let mass of copper at  $40^\circ \text{C} = x$ .  $\Delta$  mass of copper at  $120^\circ \text{C} = 2x$   
 Heat lost by copper at  $120^\circ \text{C} = \text{Heat gained by copper at } 40^\circ \text{C}$   
 $\Delta - q (\text{copper at } 120^\circ \text{C}) = q (\text{copper at } 40^\circ \text{C}) \quad \text{Recall: } q = mc\Delta T$   
 Substitute:  $-(2x \text{ g} \times c \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1} \times (T_f - 120 \text{ } ^\circ\text{C})) = (x \times c \text{ Jg}^{-1} \text{ } ^\circ\text{C}^{-1} \times (T_f - 40 \text{ } ^\circ\text{C}))$   
 $T_f = 93.3 \text{ } ^\circ\text{C}$

# Serway Chapter 2solutions

**John R. Gordon**



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physics the Sixth Edition of this authoritative text features unparalleled media integration and a newly enhanced supplemental package for instructors and students

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**Physics for Scientists and Engineers with Modern Physics** Raymond A. Serway, John W. Jewett, 2004 The Companion Web Site <http://www.pse6.com> newly revised for this edition features student access to Quizzes Web Links Internet Exercises Learning Objectives and Chapter Outlines In addition instructors have password protected access to a downloadable file of the Instructor's Manual a Multimedia Manager demo and PowerPoint files of QUICK QUIZZES

**College Physics** Raymond A. Serway, 1995 This 5 by 7 paperback is a section by section capsule of the textbook that provides a handy guide for looking up important concepts equations and problem solving hints Cme, Pse V1(Ch1-22) Pac Infotr John Jewett, Serway, 2006-10 Principles of Physics Raymond A. Serway, 1997-08 Study Guide with Computer Exercises to Accompany Physics for Scientists & Engineers and Physics for Scientists & Engineers with Modern Physics, Third Edition John R. Gordon, Raymond A. Serway, 1990 Energy Technology and Directions for the Future John R. Fanchi, 2013-10-22

Energy Technology and Directions for the Future presents the fundamentals of energy for scientists and engineers It is a survey of energy sources that will be available for use in the 21st century energy mix The reader will learn about the history and science of several energy sources as well as the technology and social significance of energy Themes in the book include thermodynamics electricity distribution geothermal energy fossil fuels solar energy nuclear energy alternate energy wind water biomass energy and society energy and the environment sustainable development the hydrogen economy and energy forecasting The approach is designed to present an intellectually rich and interesting text that is also practical This is accomplished by introducing basic concepts in the context of energy technologies and where appropriate in historical context Scientific concepts are used to solve concrete engineering problems The technical level of presentation presumes that readers have completed college level physics with calculus and mathematics through calculus of several variables The selection of topics is designed to provide the reader with an introduction to the language concepts and techniques used in all major energy components that are expected to contribute to the 21st century energy mix Future energy professionals will need to understand the origin and interactions of these energy components to thrive in an energy industry that is evolving from an industry dominated by fossil fuels to an industry working with many energy sources Presents the fundamentals of energy production for engineers scientists engineering professors students and anyone in the field who needs a technical discussion of energy topics Provides engineers with a valuable expanded knowledge base using the U S National Academy of Sciences content standards Examines the energy options for the twenty first century as older energy sources quickly become depleted

**Acquisition and Understanding of Process Knowledge**

**Using Problem Solving Methods** J.M. Gómez-Pérez,2010-07-08 The development of knowledge based systems is usually approached through the combined skills of knowledge engineers KEs and subject matter experts SMEs One of the most critical steps in this activity aims at transferring knowledge from SMEs to formal machine readable representations which allow systems to reason with such knowledge However this is a costly and error prone task Alleviating the knowledge acquisition bottleneck requires enabling SMEs with the means to produce the desired knowledge representations without the help of KEs This is especially difficult in the case of complex knowledge types like processes The analysis of different application domains uncovers that process knowledge is one of the most frequent knowledge types whose complexity requires specific means to enable SMEs to represent processes in a computational form Additionally such complexity and the increasingly large amount of data that process executions generate in knowledge intensive domains like Biology or Astronomy requires analytical means with high abstraction capabilities to support SMEs in the analysis of such processes This book presents methods and tools that enable SMEs to acquire process knowledge from the domains formally represent such knowledge reason about it and understand process executions by analyzing their provenance We describe the utilization of Problem Solving Methods as the main knowledge artifacts for process acquisition and analysis in two innovative ways First as formalizations of the reasoning strategies needed for processes and second as high level domain independent and reusable abstractions of process knowledge to provide SMEs with interpretations of process executions **A Neural Network**

**Approach to Fluid Quantity Measurement in Dynamic Environments** Edin Terzic,Jenny Terzic,Romesh Nagarajah,Muhammad Alamgir,2012-04-23 Sloshing causes liquid to fluctuate making accurate level readings difficult to obtain in dynamic environments The measurement system described uses a single tube capacitive sensor to obtain an instantaneous level reading of the fluid surface thereby accurately determining the fluid quantity in the presence of slosh A neural network based classification technique has been applied to predict the actual quantity of the fluid contained in a tank under sloshing conditions In A neural network approach to fluid quantity measurement in dynamic environments effects of temperature variations and contamination on the capacitive sensor are discussed and the authors propose that these effects can also be eliminated with the proposed neural network based classification system To examine the performance of the classification system many field trials were carried out on a running vehicle at various tank volume levels that range from 5 L to 50 L The effectiveness of signal enhancement on the neural network based signal classification system is also investigated Results obtained from the investigation are compared with traditionally used statistical averaging methods and proves that the neural network based measurement system can produce highly accurate fluid quantity measurements in a dynamic environment Although in this case a capacitive sensor was used to demonstrate measurement system this methodology is valid for all types of electronic sensors The approach demonstrated in A neural network approach to fluid quantity measurement in dynamic environments can be applied to a wide range of fluid quantity measurement applications in the

automotive naval and aviation industries to produce accurate fluid level readings Students lecturers and experts will find the description of current research about accurate fluid level measurement in dynamic environments using neural network approach useful

## Serway Chapter 2solutions Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Serway Chapter 2solutions**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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