

Specific Heat Capacity - Practice Problems

$$Q = mc\Delta T$$

Q = heat energy in Joules (J)

m = mass in grams (g)

c = specific heat in Joules per gram degree celsius ($\text{J/g}\cdot^\circ\text{C}$)

ΔT = "delta T", or temperature **change** in $^\circ\text{C}$ or Kelvin

*Remember: $\Delta T = (T_{\text{final}} - T_{\text{initial}})$.

Show all work and proper units. (e.g. Given, Find, equation, units, etc... watch sig figs & use scientific notation in your final answer)

1. A 15.75 gram piece of iron absorbs 1086.75 joules of heat energy, and its temperature changes from 25°C to 175°C . Calculate the specific heat of iron.

Given

$$m = 15.75 \text{ g}$$

$$q = 1086.75 \text{ J}$$

$$\text{Initial } T = 25^\circ\text{C}$$

$$\text{Final } T = 175^\circ\text{C}$$

Find

$$C = ?$$

Equation

$$q = mc\Delta T$$

$$c = q/m\Delta T$$

$$\Delta T = (T_{\text{final}} - T_{\text{initial}})$$

Solve

$$\Delta T = (T_{\text{final}} - T_{\text{initial}})$$

$$\Delta T = 175^\circ\text{C} - 25^\circ\text{C}$$

$$\Delta T = 150^\circ\text{C}$$

$$c = 1086.75 \text{ J} / (15.75 \text{ g})(150^\circ\text{C})$$

$$= 1086.75 \text{ J} / 2362.5 \text{ g} \times ^\circ\text{C}$$

$$= 0.46000 \text{ J/g} \times ^\circ\text{C}$$

$$= 4.6000 \times 10^{-1} ^\circ\text{C}$$

2. 297 J of heat are needed to raise the temperature of aluminum from 22°C to 55°C where the specific heat of aluminum is $0.90 \text{ J/g}\cdot^\circ\text{C}$. What is the mass of the aluminum?

Given

$$Q = 297 \text{ J}$$

$$c = 0.90 \text{ J/g}\cdot^\circ\text{C}$$

$$T_{\text{initial}} = 22^\circ\text{C}$$

$$T_{\text{final}} = 55^\circ\text{C}$$

Find

$$m = ?$$

Equation

$$m = q / (\Delta T)(c)$$

$$\Delta T = (T_{\text{final}} - T_{\text{initial}})$$

Heat Change Practice Problems

Kenneth W. Raymond



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Applied Thermodynamics for Meteorologists Sam Miller, 2015-06-04 This textbook on atmospheric thermodynamics is for students of meteorology or atmospheric science It also serves as a reference text for working professionals in meteorology and weather forecasting It is unique because it provides complete calculus based derivations of basic physics

from first principles and connects mathematical relationships to real world practical weather forecasting applications Worked examples and practice problems are included throughout *Solving Direct and Inverse Heat Conduction Problems* Jan Taler,Piotr Duda,2010-04-16 This book is devoted to the concept of simple and inverse heat conduction problems The process of solving direct problems is based on the temperature determination when initial and boundary conditions are known while the solving of inverse problems is based on the search for boundary conditions when temperature properties are known provided that temperature is the function of time at the selected inner points of a body In the first part of the book Chaps 1 5 we have discussed theoretical basis for thermal conduction in solids motionless liquids and liquids that move in time In the second part of the book Chapters 6 26 we have discussed at great length different engineering problems which we have presented together with the proposed solutions in the form of theoretical and mathematical examples It was our intention to acquaint the reader in a step by step fashion with all the mathematical derivations and solutions to some of the more significant transient and steady state heat conduction problems with respect to both the movable and immovable heat sources and the phenomena of melting and freezing Lots of attention was paid to non linear problems The methods for solving heat conduction problems i e the exact and approximate analytical methods and numerical methods such as the finite difference method the finite volume method the finite element method and the boundary element method are discussed in great detail Aside from algorithms applicable computational programs written in a FORTRAN language were given

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Exemplar book Part C provides selected Practice Questions useful for the Class 11 examination along with detailed solutions. The solutions have been designed in such a manner Step by Step that it would bring 100% Concept Clarity for the student.

I-physics Iv' 2006 Ed. , Comprehensive Chemistry XI Dr. B. Kapila, S. K. Khanna, 2010-11 Comprehensive chemistry according to the new syllabus prescribed by Central Board of Secondary Education CBSE *Heat Capacity and Thermal Expansion at Low Temperatures* T.H.K. Barron, G.K. White, 2012-12-06 The birth of this monograph is partly due to the persistent efforts of the General Editor Dr Klaus Timmerhaus to persuade the authors that they encapsulate their forty or fifty years of struggle with the thermal properties of materials into a book before they either expired or became totally senile. We recognize his wisdom in wanting a monograph which includes the closely linked properties of heat capacity and thermal expansion to which we have added a little cement in the form of elastic moduli. There seems to be a dearth of practitioners in these areas particularly among physics postgraduate students sometimes temporarily alleviated when a new generation of exciting materials are found be they heavy fermion compounds high temperature superconductors or fullerenes. And yet the needs of the space industry telecommunications energy conservation astronomy medical imaging etc place demands for more data and understanding of these properties for all classes of materials metals polymers glasses ceramics and mixtures thereof. There have been many useful books including Specific Heats at Low Temperatures by E S Raja Gopal 1966 in this Plenum Cryogenic Monograph Series but few if any that covered these related topics in one book in a fashion designed to help the cryogenic engineer and cryophysicist. We hope that the introductory chapter will widen the horizons of many without a solid state background but with a general interest in physics and materials *The Art of Modeling in Science and Engineering with Mathematica* Diran Basmadjian, 2019-07-17 Modeling is practiced in engineering and all physical sciences. Many specialized texts exist written at a high level that cover this subject. However students and even professionals often experience difficulties in setting up and solving even the simplest of models. This can be attributed to three difficulties the proper choice of model the absence of precise solutions and the necessity to make suitable simplifying assumptions and approximations. Overcoming these difficulties is the focus of *The Art of Modeling in Science and Engineering*. The text is designed for advanced undergraduate and graduate students and practicing professionals in the sciences and engineering with an interest in Modeling based on Mass Energy and Momentum or Force Balances. The book covers a wide range of physical processes and phenomena drawn from chemical mechanical civil environmental sciences and bio sciences. A separate section is devoted to real World industrial problems. The author explains how to choose the simplest model obtain an appropriate solution to the problem and make simplifying assumptions approximations **Chemistry3** Andrew Burrows, John Holman, Simon Lancaster, Andrew Parsons, Tina Overton, Gwen Pilling, Gareth Price, 2021 Chemistry is widely considered to be the central science it encompasses concepts on which all other branches of science are developed. Yet for many students entering university gaining a firm grounding in chemistry is a real challenge. Chemistry3 responds to this

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Digital formats and resources: Chemistry3 is available for students and institutions to purchase in a variety of formats and is supported by online resources. The e-book offers a mobile experience and convenient access along with functionality tools, navigation features and links that offer extra learning support. www.oxfordtextbooks.co.uk/ebooks. The e-book also features interactive animations of molecular structures, screencasts in which authors talk step by step through selected examples and key reaction mechanisms, and self-assessment activities for each chapter. The accompanying online resources will also include for students: DT Chapter 1 as an open access PDF; DT Chapter summaries and key equations to download to support revision; DT Worked solutions to the questions in the book. The following online resources are also provided for lecturers: DT Test bank of ready-made assessments for each chapter with which to test your students; DT Problem solving workshop activities for each chapter for you to use in class; DT Case studies showing how instructors are successfully using Chemistry3 in digital learning environments and to support innovative teaching practices; DT Figures and tables from the book.

Applied Mechanics Reviews, 1994

Chemistry Calculations for Beginners John Obimakinde, Samuel Obimakinde, Ebenezer Obimakinde, Fredrick Akinbolade, 2025-05-30. With decades of combined experience as science teachers at both school and undergraduate levels, the authors have recognised that one of the greatest challenges faced by students studying chemistry is grasping the complexity of the numerous numerical problems found in most parts of the subject. This text is crafted to provide a clear and accessible pathway to overcoming this challenge by assisting students, especially novices or those with minimal knowledge of the subject, in performing chemistry calculations. The content covers fundamental calculations crucial to understanding the principles of chemistry, making it an invaluable tool for students aiming to excel in their studies.

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A New Approach to I.C.S.E. Physics for Class X V.K. Sally, R.N. Das Gupta, Goyal Brothers Prakashan, 2019-12-11 Goyal Brothers Prakashan

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