

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 celsicus (J/g·°C)

ΔT = "delta T", or temperature **change** in °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 J/g·°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

Diran Basmadjian



Heat Change Practice Problems:

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[Chemistry: Matter & Change, Solving Problems - A Chemistry Handbook](#) McGraw Hill, 2001-08 Glencoe Chemistry Solving Problems A Chemistry Handbook Matter and Change

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

Principles of Heat Transfer Massoud Kaviany,2002 CD ROM contains Equations and relations models for thermal circuit modeling **Basic Principles and Calculations in Chemical Engineering** David Mautner Himmelblau,James B. Riggs,2012 Best selling introductory chemical engineering book now updated with far more coverage of biotech nanotech and green engineering Thoroughly covers material balances gases liquids and energy balances Contains new biotech and bioengineering problems throughout **The Practice of Chemistry Study Guide & Solutions Manual** Pamela Mills,Amina El-Ashmawy,2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises General Organic and Biological Chemistry Kenneth W. Raymond,2009-12-14 This general organic and biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry Students need have no previous background in chemistry but should possess basic math skills The text features numerous helpful problems and learning features **Chapter-wise NCERT + Exemplar + Practice Questions with Solutions for CBSE Chemistry Class 11 - 2nd Edition** Disha Experts,2017-08-29 The book Chapter wise NCERT Exemplar Practice Questions with Solutions for CBSE Class 11 Chemistry has been divided into 3 parts Part A provides detailed solutions Question by Question of all the questions exercises provided in the NCERT Textbook Part B provides solutions to the questions in the NCERT

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

challenge providing students with a full understanding of the fundamental principles of chemistry on which to build later studies. Uniquely amongst the introductory chemistry texts currently available, Chemistry3's author team brings together experts in each of organic, inorganic and physical chemistry with specialists in chemistry education to provide balanced coverage of the fundamentals of chemistry in a way that students both enjoy and understand. The result is a text that builds on what students know already from school and tackles their misunderstandings and misconceptions thereby providing a seamless transition from school to undergraduate study. Written with unrivalled clarity, students are encouraged to engage with the text and appreciate the central role that chemistry plays in our lives through the unique use of real world context and photographs. Chemistry3 tackles head on two issues pervading chemistry education: students' mathematical skills and their ability to see the subject as a single unified discipline. Instead of avoiding the maths, Chemistry3 provides structured support in the form of careful explanations, reminders of key mathematical concepts, step by step calculations in worked examples and a Maths Toolkit to help students get to grips with the essential mathematical element of chemistry. Frequent cross references highlight the connections between each strand of chemistry and explain the relationship between the topics so students can develop an understanding of the subject as a whole.

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

SELF-HELP TO I.C.S.E. NEW APPROACH TO PHYSICS 10 Amar Bhutani, Solutions of New Approach to Physics 10 Goyal Brothers for 2021 Examinations

Reviewing **Heat Change Practice Problems**: Unlocking the Spellbinding Force of Linguistics

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