

Answers

Q = mcΔT, where Q = heat energy, m = mass, and ΔT = change in temp.
Remember, $\Delta T = (T_{final} - T_{initial})$. Show all work and proper units.

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

$$C = \frac{Q}{m(T_f - T_i)} = \frac{1086.75}{15.75(175-25)} = 0.46 \text{ J/g}^\circ\text{C}$$

2. How many joules of heat are needed to raise the temperature of 10.0 g of aluminum from 22°C to 55°C, if the specific heat of aluminum is 0.90 J/g°C?

$$Q = mC(T_f - T_i) = 10.0\text{g} (0.90\text{J/g}^\circ\text{C})(55-22) = 297 \text{ J}$$

3. Calculate the specific heat capacity of a piece of wood if 1500.0 g of the wood absorbs 67,500 joules of heat, and its temperature changes from 32°C to 57°C.

$$C = \frac{Q}{m(T_f - T_i)} = \frac{67500 \text{ J}}{(1500 \text{ g})(57-32)} = 1.8 \text{ J/g}^\circ\text{C}$$

4. 100.0 g of 4.0°C water is heated until its temperature is 37°C. Calculate the amount of heat energy needed to cause this rise in temperature.

$$Q = mC(T_f - T_i) = 100\text{g}(4.184\text{J/g}^\circ\text{C})(37 - 4) = 14000 \text{ J}$$

5. 25.0 g of mercury is heated from 25°C to 155°C, and absorbs 455 joules of heat in the process. Calculate the specific heat capacity of mercury.

$$C = \frac{Q}{m(T_f - T_i)} = \frac{455 \text{ J}}{(25\text{g})(155-25)} = 0.14 \text{ J/g}^\circ\text{C}$$



Physical Science If8767 Heat Calculations

W Nerst

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Heat, Thermodynamics and Radiation Alauddin Khan,2021-02-01 Document from the year 2020 in the subject Physics Thermodynamics grade 4 00 language English abstract The book consists of thirteen chapters to fulfill requirements of different kind of readers This volume takes into account the study of Thermometry Kinetic theory of gases the equation of state The change of state Transmission of heat First law of Thermodynamics Thermodynamic functions Second law of Thermodynamics Third law of Thermodynamics Maxwell's equation Clausius Clapeyron equation and Radiation Laws The volume contains illustrative examples of both the ideas and the methods The book is intended as a text book on Heat Thermodynamics and Radiation for undergraduate levels and also as a reference book for anyone who is interested in this field of enquiry The book is comprehensive enough to cover all the topics that are usually taught to upper undergraduate students of Physics Chemistry and Engineering This book will be useful to students and teachers in different universities around the world Teaching Heat Transfer and Heat Exchange Brian Melvin Evenson,2004

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Analysis of Heat Equations on Domains. (LMS-31) El-Maati Ouhabaz,2004-10-31 This is the first comprehensive reference published on heat equations associated with non self adjoint uniformly elliptic operators The author provides introductory materials for those unfamiliar with the underlying mathematics and background needed to understand the properties of heat equations He then treats L^p properties of solutions to a wide class of heat equations that have been developed over the last fifteen years These primarily concern the interplay of heat equations in functional analysis spectral theory and mathematical physics This book addresses new developments and applications of Gaussian upper bounds to spectral theory In particular it shows how such bounds can be used in order to

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Heat and Thermodynamics Michael Sprackling, 1993 This undergraduate text presents the core topics in thermal physics using the problem based learning approach. The book has combined the aim of promoting understanding through problem solving and by putting many of the problems in traditional examination form providing exam preparation.

Thermal Measurements and Inverse Techniques Helcio R.B. Orlande, Olivier Fudym, Denis Maillet, Renato M. Cotta, 2011-05-24 With its uncommon presentation of instructional material regarding mathematical modeling measurements and solution of inverse problems Thermal Measurements and Inverse Techniques is a one stop reference for those dealing with various aspects of heat transfer. Progress in mathematical modeling of complex industrial and environmental systems has enabled.

Mathematical Principles of Heat Transfer K. N. Shukla, 2005 This book presents an investigative account of Mathematical Principles of Heat Transfer. It is concerned with three aspects of heat transfer analysis theoretical development of conservation equations analytical and numerical techniques of the solution and the physical processes involved in the three basic modes of heat transfer namely conduction convection and radiation. A concept of mathematical modeling is developed through the use of differential equations. In doing so the well posed boundary value problems are constructed and the solutions are attempted.

Thermal Physics Michael Sprackling, 1991 This is a general exposition of the principles governing the properties and effects of heat. Each chapter is followed by examples problems and notes which should enhance the student's understanding of and feel for the subject.

Formulas and tables for heating, German formulas and tables John Henry Kinealy, 1899

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