

Chapter 3 Assessment

Vocabulary

Select the correct term to complete the sentences.

kilogram	gram	atom
element	compound	system
energy	Calorie	newton
heat	thermometer	Fahrenheit
Celsius	force	conservation of energy

Section 3.1

1. The basic SI unit of mass, approximately equal to 1000 grains of rice, is the ____.
2. A pure substance that cannot be broken down into other substances is known as a(n) ____.
3. A combination of elements that most often has properties different than the elements from which it is made is called a(n) ____.
4. The smallest particle of matter which retains the identity of the element it comes from is called a(n) ____.
5. An amount of mass equal to one-thousandth of a kilogram is a(n) ____.

Section 3.2

6. A small group of related things that work together may be called a ____.
7. A quantity that measures the ability to cause change in a physical system in units of joules is known as ____.
8. A unit of energy larger than a joule used to measure the energy available in food is the ____.
9. An SI unit used to measure force, equal to less than one-quarter of a pound, is the ____.

10. A natural law that says energy cannot be created or destroyed is the law of ____.
11. An action, measured in newtons, that has the ability to transfer energy or change motion is called a(n) ____.
12. A(n) ____ is an instrument used to measure temperature.
13. The temperature scale on which the freezing point of water is 32 degrees and boiling point of water is 212 degrees is the ____ scale.
14. The temperature scale on which the freezing point of water is 0 degrees and boiling point of water is 100 degrees is the ____ scale.
15. When thermal energy flows from hot to cold it is called ____.

Concepts

Section 3.1

1. Scientists find it useful to use both grams and kilograms for measuring mass. Why is it necessary to have two different SI units of mass?
2. Mass describes:
 - a. an object's size.
 - b. the amount of matter in an object.
 - c. the type of elements in an object.
3. What laboratory instrument is most often used to measure mass?
4. Identify the following substances as an *element* or a *compound*:
 - ____ table salt (sodium chloride)
 - ____ oxygen gas.
 - ____ rust
 - ____ iron

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sensing applications The E Book starts with a brief review of basic photonic crystal PhC structure related concepts and describes the numerical and technological tools useful in the design and fabrication of devices based on PhCs Next the E Book provides a selection of crossover topics emerging in the scientific community as breaking through researches technologies and sciences for the development of novel technological platforms for physical chemical and biological sensing The E Book ends with a description of the main PhC sensors to date by representing many of the exciting sensing applications that utilize photonic crystal structures

Nuclear Science Abstracts ,1976 **Science Course Improvements Projects** National Science Foundation (U.S.),1964 *Proceedings of the Indian National Science Academy* Indian National Science Academy,1988 **Resources in Education** ,1992 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 **Physical Properties of Ceramic and Carbon Nanoscale Structures** Stefano

Bellucci,2011-02-28 This is the second volume in a series of books on selected topics in Nanoscale Science and Technology based on lectures given at the well known INFN schools of the same name The aim of this collection is to provide a reference corpus of suitable introductory material to relevant subfields as they mature over time by gathering the significantly expanded and edited versions of tutorial lectures given over the years by internationally known experts The present set of notes stems in particular from the participation and dedication of prestigious lecturers such as Andrzej Huczko Nicola Pugno Alexander Malesev Pasquale Onorato and Stefano Bellucci All lectures were subsequently carefully edited and reworked taking into account the extensive follow up discussions A tutorial lecture by Huczko et al shows how a variety of carbon and ceramic nanostructures nanotubes nanowires nanofibres nanorods and nanoencapsulates have in particular great potential for improving our understanding of the fundamental concepts of the roles of both dimensionality and size on physical material properties Bellucci and Onorato provide an extensive and tutorial review of the quantum transport properties in carbon nanotubes encompassing a description of the electronic structure from graphene to single wall nanotubes as well as a discussion of experimental evidence of superconductivity in carbon nanotubes and the corresponding theoretical interpretation In the first contribution by Pugno new ideas on how to design futuristic self cleaning super adhesive and releasable hierarchical smart materials are presented He also reviews the mechanical strength of such nanotubes and megacables with an eye to the visionary project of a carbon nanotube based space elevator megacable In his second contribution Pugno outlines in detail the role on the fracture strength of thermodynamically unavoidable atomistic defects with different size and shape both numerically and theoretically for nanotubes and nanotube bundles Focusing on graphitic allotropes the chapter by Bellucci and Malesev aims to give a taste of the widespread implications carbon nanostructures have on research and applications starting from an historical overview followed by a discussion of the structure and physical properties of carbon nanotubes and graphene in particular in the context of the several different synthesis techniques presently available *Advances in Colloid Science* Mohammed Rahman,Abdullah Mohammed Asiri,2016-11-23 This book

Advances in Colloid Science covers a number of up to date research advancement and progresses on colloids It is a promising novel research field that has acknowledged a lot of interest recently Here the exciting scientific reports on cutting edge of science and technology associated to facile and economical synthesis self assembly wettability liquid crystallinity physical properties adoptions morphology control drug design structural properties and prospective biological and optical implementation of newly designed colloids are concluded This book presents an overview of recent and current colloidal study of fundamental and significant applications and implementation research worldwide The colloidal science offers significant new and exciting challenges in biomedical chemical physical and technological field It is an important booklet for research organizations governmental research centers academic libraries and R *Catalog* University of Colorado Boulder,2005

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