

Material Science Quiz **Answers**

Answer the following questions without the assistance of a neighbor, friend or teacher.

1. For each material, indicate its material class.

quartz	<u>3</u>
steel	<u>2</u>
Teflon [®]	<u>1</u>
aluminum	<u>2</u>
plywood	<u>4</u>
fiber glass	<u>4</u>
diamond	<u>3</u>
Zip Lock [®] bag material	<u>1</u>
paper clip	<u>2</u>
polyvinyl chloride (PVC)	<u>1</u>
concrete	<u>4</u>
paper	<u>4</u>

Material Classes:

1. polymer
2. metal
3. ceramic
4. composite

2. Connect each material to the corresponding material class.

ductility	<u>8</u>	1. Hard, covalently bonded material
brittle	<u>9</u>	2. Describes displacement of particles in a deforming body
lattice	<u>7</u>	3. Measured stress at onset of plastic deformation
ceramic	<u>1</u>	4. The brand of science that deals with metal properties
stress	<u>10</u>	5. Irreversible alteration of a solid body under stress
plastic deformation	<u>5</u>	6. Reversible alteration of a solid body under stress
yield	<u>3</u>	7. 3D geometric arrangement of atoms composing a crystal
strength	<u>6</u>	8. Ability of material to undergo permanent deformation without fracture
elastic deformation	<u>2</u>	9. Ability of material to break, or crack easily when subjected to a force
strain	<u>4</u>	10. Force exerted on an object over a defined cross-sectional area
metallurgy		

3. What type of bonding makes up ceramic materials?

- a. covalent bonds
- b. London dispersion forces
- c. metallic bonds
- d. ionic bonds

4. How many lattice structures exist?

- a. 2
- b. 14
- c. 7
- d. 5

Material Science And Engineering Questions And Answers

Jonathan B. Puthoff, Vilupanur A. Ravi



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Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-01-11 The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology By better understanding the components and structures of materials researchers can increase its applications across different industries Materials Science and Engineering Concepts Methodologies Tools and Applications is a compendium of the latest academic material on investigations technologies and techniques pertaining to analyzing the synthesis and design of new materials Through its broad and extensive coverage on a variety of crucial topics such as nanomaterials biomaterials and relevant computational methods this multi volume work is an essential reference source for engineers academics researchers students professionals and practitioners seeking innovative perspectives in the field of materials science and engineering **MATERIALS SCIENCE AND ENGINEERING, SIXTH EDITION V.**

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Material Science and Metallurgy Anup Goel,2021-01-01 A material is that from which anything can be made It includes wide range of metals and non metals that are used to form finished product The knowledge of materials and their properties is of great significance for a design engineer Material science is the study of the structure properties relationship of engineering materials such as ferrous non ferrous materials polymers ceramics composites and some advanced materials Metallurgy is the study of metals related to their extraction from ore refining production of alloys along with their properties The study of material science and metallurgy links the science of metals to the industries Also this helps in completing demands from new applications and severe service requirements **Materials for Engineers** Jonathan B. Puthoff,Vilupanur A. Ravi,2024-08-22 A working understanding of materials principles is essential in every area of engineering However the materials requirements of different engineering disciplines can vary considerably Existing introductory textbooks on engineering materials adopt a universalist approach providing theoretical development and surveying a landscape of topics suitable for introducing materials engineers to their field Materials for Engineers Principles and Applications for Non Majors has been constructed with the requirements of non materials engineering students non majors in mind The theoretical foundations of material structure and behavior are curated and focused and the description of the behavior of materials as they pertain to performance measurement and design are developed in detail The book Places applications and essential measurement methods before detailed theory Features a variety of types end of chapter exercises

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Callister,1997 In this introduction to materials science and engineering William Callister provides a treatment of the important properties of three types of materials metals ceramics and polymers *Computational and Experimental Approaches in Materials Science and Engineering* Nenad Mitrovic,Milos Milosevic,Goran Mladenovic,2019-09-24 This proceedings book offers a collection of high quality peer reviewed research papers presented at the International Conference of Experimental and Numerical Investigations and New Technologies CNNTech2019 held in Zlatibor Serbia from 2 to 5 July 2019 Discussing various industrial engineering and scientific applications of the engineering techniques it provides researchers from academia and industry with a platform to present their original work and exchange ideas experiences information techniques applications and innovations in the fields of mechanical engineering materials science chemical and process engineering experimental techniques numerical methods and new technologies *Green and Sustainable Advanced Materials, Volume 2* Shakeel Ahmed,Chaudhery Mustansar Hussain,2018-10-08 Sustainable development is a very prevalent concept of modern society This concept has appeared as a critical force in combining a special focus on development and growth by maintaining a balance of using human resources and the ecosystem in which we are living The development of new and advanced materials is one of the powerful examples in establishing this concept Green and sustainable advanced materials are the newly synthesized material or existing modified material having superior and special properties These fulfil today s growing demand for equipment machines and devices with better quality for an extensive range of applications in various sectors such as paper biomedical textile and much more Volume 2 provides chapters on the valorization of green and sustainable advanced materials from a biomedical perspective as well as the applications in textile technology optoelectronics energy materials systems and the food and agriculture industry

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