

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 branch 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>8</u>	8. Ability of material to undergo permanent deformation without fracture
elastic deformation	<u>6</u>	9. Ability of material to break, or crack easily when subjected to a force
strain	<u>2</u>	10. Force exerted on an object over a defined cross-sectional area
metallurgy	<u>4</u>	

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

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NARAYAN CHANGDER



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Advances in Computer Science and its Applications Hwa Young Jeong, Mohammad S. Obaidat, Neil Y. Yen, James J. (Jong Hyuk) Park, 2013-11-23 These proceedings focus on various aspects of computer science and its applications thus providing an opportunity for academic and industry professionals to discuss the latest issues and progress in this and related areas The book includes theory and applications alike **Current Index to Journals in Education**, 1989 Engineering Education American Society for Engineering Education, 1955 *Climate Smart & Energy Wise* Mark S. McCaffrey, 2014-09-09 Today's answers to our most urgent climate issues The twenty first century ushered in a set of unmistakably urgent global challenges that are too important to be an afterthought in today's classrooms Climate Smart Energy Wise offers a virtual blueprint to climate and energy education packed with resources and strategies including A high level overview of where climate and energy topics fit or don't fit into your current curriculum with connections to the NGSS Proven methods to teach climate change and related topics in a grade appropriate way Sample learning activities and high quality online resources **Proceedings of the American Society for Engineering Education** American Society for Engineering Education, 1955 *Proceedings* American Society for Engineering Education, 1955 **THE Journal**, 1998 **Journal of the Surveying and Mapping Division** American Society of Civil Engineers. Surveying and Mapping Division, 1967 Journal American Society of Civil Engineers. Surveying and Mapping Division, 1965 **Materials Engineering and Exploring Properties** Robert Snedden, 2015-09-15 Engineering in Action connects us with the technology that surrounds us in our everyday lives Discover the design process that engineers follow to define problems discuss solutions and build and test models Materials engineers research design and develop the materials needed to make products durable convenient and safe Learn how to combine your understanding of materials science and the engineering design process to tackle a design challenge of your own Book jacket **Experiments in Materials Science and Engineering** Tariq A. Khraishi, Marwan S. Al-Haik, 2010-08-06 Experiments in Materials Science and Engineering combines traditional and modern experiments to teach undergraduate student laboratories in material science materials engineering and engineering mechanics Complete with illustrations figures and equations this book delivers timely rich and engaging reading experience to students Experiments in Materials Science and Engineering is ideal for professors looking for a text that provides versatile teaching materials that can be easily tailored to suit their specific class setting Experiments in Materials Science and Engineering incorporates a variety of unique features Experiments that are not typical in curricula including paper towel tension testing powder metallurgy and nano indentation A chapter on technical report writing that helps standardize the lab reports generated by students A To Do List in each chapter that replaces the instructor's need to create points that the students need to address in their reports **Materials Science and Engineering** Chain Tsuan Liu, J. K. Wu, Zhongguo gong cheng shi xue hui, 1998 **Materials Science on CD-ROM** Andrew J. Green, Boban Tanovic, Ian Jones, Ann Fretwell, Peter J.

Goodhew,1998-01-22 Materials Science on CD ROM has been designed by the MATTER team for teachers and students of materials science metallurgy engineering and other related disciplines This collection of completely interactive learning modules created to make use of those functions best performed by computer makes it easier to understand the complex concepts of this challenging discipline Designed to complement traditional teaching and learning methods this CD ROM fits well with the current selection of textbooks available and serves as a stimulating resource for teachers explaining new concepts Materials Science on CD ROM guides students through the key concepts at their own pace The hands on approach to learning can accelerate the understanding of materials science and prove extremely useful in reviewing for exams Its highly interactive facilities allow students to test their own understanding for example they can see how graphs and processes change by selecting different parameters They can also test their knowledge by answering the questions that appear within each module Graphical animation and hypertext links between related screens and topics further enhance these features

(WCS)Materials Science and Engineering Morris Hein,Susan Arena,2006-04 Clear and logical explanations of chemical concepts Step by step approach to problem solving Varied levels of questions and problems Worked out examples relating to the real world

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