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file at 07-11, 07-11-2014 Solutions for Fundamentals of Modern Manufacturing, 6e (published by Wiley) "ÅÅÅ MPGroover 2015 2 THE NATURE OF MATERIALS Review Questions 2.1 The elements listed in the Periodic Table can be divided into three categories. What are these categories and give an example of each? Answer. The three categories of elements are metals (e.g., aluminum), nonmetals (e.g., oxygen), and semimetals (e.g., silicon). 2.2 Which elements are the noble metals? Answer. The noble metals are copper, silver, and gold. 2.3 What is the difference between primary and secondary bonding in the structure of materials? Answer. Primary bonding is strong bonding between atoms in a material, for example to form a molecule; while secondary bonding is not as strong and is associated with attraction between molecules in the bulk material. 2.4 Describe how ionic bonding works? Answer. In ionic bonding, atoms of one element give up their outer electron(s) to the atoms of another element to form complete outer shells. 2.5 What is the difference between crystalline and noncrystalline structures in materials? Answer. The atoms in a crystalline structure are located at regular and repeating lattice positions in three dimensions; thus, the crystal structure possesses a long-range order which allows a high packing density. The atoms in a noncrystalline structure are randomly positioned in the material, not possessing any repeating, regular pattern. 2.6 What are some common point defects in a crystal lattice structure? Answer. The common point defects are (1) vacancy - a missing atom in the lattice structure; (2) ion-pair vacancy (Schottky defect) - a missing pair of ions of opposite charge in a compound; (3) interstitial - a distortion in the lattice caused by an extra atom present; and (4) Frenkel defect - an ion is removed from a regular position in the lattice and inserted into interstitial position not normally occupied by that ion. 2.7 Define the difference between elastic and plastic deformation in terms of effect on the crystal lattice structure. Answer. The elastic deformation results in a temporary distortion of the lattice structure which is proportional to the applied stress. Plastic deformation involves a stress of sufficient magnitude to cause permanent displacement in the relative positions of the adjacent atoms in the lattice. Plastic deformation generally involves the slip mechanism - relative movement of atoms on opposite sides of a plane in the lattice. 2.8 How do grain limits contribute to metal deformation induration? Answer. The grain boundaries block the continuous movement of dislocations in the metal during deformation. As the dislocations become blocked, the metal becomes harder' to warp; it actually becomes stronger'. 2.9 Identify certain materials that have a crystalline structure. Extracts from this work can be reproduced by instructors for non-profit distribution for testing or education purposes only to students enrolled in courses for which the Å textbook was adopted. Any other reproduction or translation of this work beyond that permitted by Sections 107 or 108 of the Copyright Act of 1976 of the United States without the permission of the copyright owner Å is illegal. 2-1 Full file at Full file at 07-11, 07-11-2014 Solutions for Fundamentals of Modern Manufacturing, 6e (published by Wiley) ÅÅ MPGroover 2015 Answer. Materials that typically have a crystalline structure are metals and ceramics other than glass. Some they have a partially crystalline structure. 2.10 Identify certain materials that have a non-crystalline structure. Answer. 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GROOVO PUBLISHED BY Å Å Å Å "John Wiley & Sons Total Pages -1028 PDF Dimension of Book 30.4 MB Buy Fundamentals of Modern Production: Materials, Processes and Carta Book Systems Buy Fundamentals of Modern Production: Materials, Processes and Systems Kindle Book 11 parts in 42 CHAPTERS SUMMARY: CHAPTER 1. Introduction and panoramic on the manufacture Part I. Properties of the materials and attributes of the product chapter 2. The nature of the materials chapter 3. mechanical properties of the materials chapter 4. physical properties of the materials chapter 5 . Dimensions, surfaces and relative part II of measurement. Chapter 6. Metals Chapter 7. Ceramic Chapter 8. Polymers chapter 9. Composite materials Part III. Solidification processes chapter 10. Fundamentals of metal merger chapter 11. Metal merger processes Chapter 12. Vetreria chapter 13. Modeling processes for plastic materials chapter 14. CHAPTER TRUTMENT TREATMENT MATERY 15. 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Welding processes Chapter 31. Prayer, welding and adhesive paste chapter 32. Mechanical assembly part IX. Special special and assembly technologies Chapter 33. Rapid Prototyping Chapter 34. Development of integrated circuits Chapter 35. Electronics assembly and packaging Chapter 36. Microfabrication technologies Chapter 37. Nanofabrication technologies Part X. Production systems Chapter 38. Automation Technologies Chapter 39. Integrated Manufacturing Manufacturing Systems Part XI. Manufacturing Support Systems Chapter 40. Production Engineering Chapter 41. Production Planning and Control Chapter 42. Control and inspection of the Fundamentals of Modern Manufacturing: Materials, Processes and Systems (7th Edition) Authors PDF: Mikell P. 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