

10.3**THE NATURE OF SOLIDS****SECTION REVIEW****Objectives**

- Describe how the degree of organization of particles distinguishes solids from gases and liquids
- Distinguish between a crystal lattice and a unit cell
- Explain how allotropes of an element differ

Key Terms

- melting point
- crystal
- unit cell
- allotropes
- amorphous solids
- glasses

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Solids tend to be dense and 1. They do not flow or take the shape of their containers, like liquids do, because the particles in solids vibrate around 2 points. When a solid is sufficiently heated and its particles vibrate so strongly that they are no longer held in fixed positions, the solid 3. The 4 is the temperature at which a solid turns to liquid. The melting and 5 of a substance are at the same temperature. In general, ionic solids tend to have relatively 6 melting points while molecular solids tend to have relatively low melting points. Most solids are 7 in nature. The particles are arranged in a pattern known as a crystal 8. The smallest subunit of a crystal lattice is the 9. Some solids have a disordered array of particles and are 10.

Nature Of Solids Section Review Key

Ensheng Dong



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Impact of Mineral Impurities in Solid Fuel Combustion R. Gupta, T. Wall, L. Baxter, 2007-05-08 This book contains papers presented at the Engineering Foundation Conference on mineral matter in fuels held on November 2 7 1997 in Kona Hawaii The conference is one of a continuing series that was initiated by the CEGB Mar wood Engineering Laboratories in 1963 The conference was to be eventually organised by the Engineering Foundation as the need for multi disciplinary work related to c trolling ash effects in combustors became apparent The conference covers both the science and the applications The papers also present case histories particularly for current fuel technologies developments in advanced technologies for power generation and mathematical modelling of these processes Developments since 1963 have been slow but steady due to the complexity of the chemical and physical processes involved However the research presented here displays great improvement in our understanding of the mechanisms by which mineral matter will influence fuel use Steve Benson from EERC presented a review and current status of issues related to ash deposition in coal combustion and gasification The application of new analytical tools which have been detailed in the previous conferences is presented These

include CCSEM as well as new techniques for characterising sintering of ash such as TMA image analysis X ray diffraction crystallography and thermal analysis The new analytical techniques were extended to encompass widely differing fuels such as biomass Ole H Larsen from ELSAM Denmark presented a review of these advanced techniques *Holt Chemistry* Ralph Thomas Myers,2004 *General Electric Review* General Electric Company,1927 *Chemistry 'O' Level* Rex M. Heyworth,2007 **The Engineering and Boiler House Review** ,1900 American Monthly Review of Reviews Albert Shaw,1928 **Bibliographic Survey of Corrosion;** ,1954 **English Mechanic and Mirror of Science** ,1870 Technology Review ,1919 *Ion-selective Electrode Reviews* ,1983 **Physical Review** ,1927 Vols for 1903 include Proceedings of the American Physical Society **The Chemical Age** ,1920 **Mines Statement [by the Minister of Mines]** New Zealand. Mines Department,1914 **Papers and Reports Relating to Minerals and Mining** New Zealand. Mines Dept,1914 *Appendix to the Journals of the House of Representatives of New Zealand* New Zealand. Parliament. House of Representatives,1914 The Journal of Education ,1904

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