

Section 13.3

The Nature of Solids

■ OBJECTIVES:

- Identify the factors that determine the shape of a crystal.

Nature Of Solids

George K. Horton, Alexei A. Maradudin



Nature Of Solids:

The Nature of Solids Alan Holden, 1968 **Nature** Sir Norman Lockyer, 1925 **Amorphous Solids** William A. Phillips, 2012-12-06 It is now ten years since it was first convincingly shown that below 1 K the thermal conductivity and the heat capacity of amorphous solids behave in a way which is strikingly different to that of crystalline solids Since that time there has been a wide variety of experimental and theoretical studies which have not only defined and clarified the low temperature problem more closely but have also linked these differences between amorphous and crystalline solids to those suggested by older acoustic and thermal experiments extending up to 100 K The interest in this somewhat restricted branch of physics lies to a considerable extent in the fact that the differences were so unexpected It might be thought that as the temperature probing frequency or more generally the energy decreases a continuum description in which structural differences between glass and crystal are concealed should become more accurate In a sense this is true but it appears that there exists in an amorphous solid a large density of additional excitations which have no counterpart in normal crystals This book presents a survey of the wide range of experimental investigations of these low energy excitations together with a review of the various theoretical models put forward to explain their existence and nature **Dynamical Properties of Solids: Crystalline solids, fundamentals** George K. Horton, Alexei A. Maradudin, 1974 **Structure and Properties of Solids** Faraday Society, 1967 **The Nature of Solids** Gregory Hugh Wannier, 1952 *Dynamical Properties of Solids: Disordered solids, optical properties* George K. Horton, Alexei A. Maradudin, 1980 **History of Solid State Physics** Joginder Singh Galsin, **Nature Of Chemistry Volume - 3** Aditya Tripathi, **Structure and Properties of Solids** Lubomír Sodomka, 1968

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