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Solid State Physics /4 Chapter 1: Crystal Structure Asst. Prof. Dr. Tagreed Muslim  
4 Basis: An atom, ion, molecule or group of atoms is called a point and each point is connected with the other points to form a specific body. The basis for each point should be: 1 - Symmetrical parts in terms of structure, arrangement and direction. 2.

## **Solid State Physics Chapter 1: Crystal Structure**

Solid State physics Chapter One A crystal or crystalline solid In general solids can be divided in to two distinct classes. 1) Crystalline solids 2) 2) Amorphous solids 1.

## **Solid State physics 1) 2) Crystal**

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## Structure

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$Ka+1i K2a2 2 ' 1: (11)$  Then the energy for the lowest energy band is  $E = \sim 2K 2m = \sim P ma2$ . (b) For  $k = \dots a$ , eq. (10) reduces to  $\mu P Ka \uparrow \sin Ka + \cos Ka = i1$ : (12) In the vicinity of the zone boundary, in order to find the band gap, taking  $Ka = \dots + -$ , where  $- \ll 1$  and looking for the solutions of  $-$  is convenient. Eq. (12) is ...

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## **Solid-state chemistry - Wikipedia**

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