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# Fundamentals Of Condensed Matter And Crystalline Physics

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1-4. Show that the packing fraction of a FCC crystal lattice is  $\frac{2\sqrt{2}}{3} = 0.740$ .  
1-4. Solution: From table 1-1, the nearest neighbor distance is

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## **Fundamentals of Condensed Matter and Crystalline Physics ...**

Condensed matter physics is the field of physics that deals with the macroscopic

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and microscopic physical properties of matter. In particular it is concerned with the "condensed" phases that appear whenever the number of constituents in a system is extremely large and the interactions between the constituents are strong.

## **Condensed matter physics - Wikipedia**

All condensed matter is constructed of atoms that contain nuclei and electrons. The nuclei reside at the atom center and the electrons, while bound up in the atom, orbit about the nucleus at a relatively large distance under the attraction of a Coulomb force.

## **Scattering theory (Chapter 5) - Fundamentals of Condensed ...**

Fundamentals of Condensed Matter and Crystalline Physics: An Introduction for Students of Physics and Materials Science by Sidebottom, David L.

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## **Fundamentals of Condensed ...**

I took a graduate condensed matter class that followed this text in it's lectures and assigned exercises from it for homework. I found this book quite unclear and unhelpful. The sections do not go through material in a straightforward manner and never seem to follow any sort of linear argument or logic for deriving the results presented.

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