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Engineering physics | sem 1 | by  
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Atomic packing factor: A corner atom is shared by eight unit cells  
Contribution of a corner atom is  $1/8$

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Cube has 8 corners Hence  
contribution of 8 corner atoms=  
 $[1/8] \times 8 = 1$  Number of atoms per unit  
cell= 1 If  $r$  is the radius of the atom,  
distance between the centers of two  
neighboring atoms =  $2r = a$   $r = a/2$   
Volume of one atom =  $\frac{4}{3} r^3$   
Volume of unit cell =  $a^3$  atomic  
packing factor =  $\frac{4 \times \frac{4}{3} r^3}{a^3} = \frac{16}{6} \dots$

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Crystallography is the experimental

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science of determining the arrangement of atoms in crystalline solids (see crystal structure).The word "crystallography" is derived from the Greek words *crystallon* "cold drop, frozen drop", with its meaning extending to all solids with some degree of transparency, and *graphein* "to write". In July 2012, the United Nations recognised the importance of the ...

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between the school education and

engineering education which the

students pursue from their second

year of study. For successful

completion of engineering diploma

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knowledge of

basics is very much essential. The

Content of this Engineering Physics I

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