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Chapter 3 D. A. Neamen

Problem Solutions

Chapter 3 3.1 If a ϕ_0 were

to increase, the bandgap

energy would decrease

and the material would

begin to behave less like a

semiconductor and more

like a metal. If a ϕ_0 were to

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decrease, the bandgap energy would increase and the material would begin to behave more like an insulator. 3.2 wave equation is: $\nabla^2 \psi = -\frac{2mE}{\hbar^2} \psi$ Assume the solution is of the form: $\psi = u \exp(jkx)$ Region ...

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Manual Problem

Solutions Chapter 1 3

Problem Solutions 1.1

(a) fcc: 8 corner atoms

$\times 1/8 = 1$ atom 6 face
atoms $\times 1/2 = 3$ atoms

Total of 4 atoms per unit

cell (b) bcc: 8 corner

atoms $\times 1/8 = 1$ atom 1

enclosed atom = 1 atom

Total of 2 atoms ...

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presents the physics of
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thermal equilibrium;
Chapter 5 treats the
transport phenomena of
the charge carriers in a
semiconductor. The
nonequilibrium excess
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