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semiconductor device fundamentals #1 Introduction to Semiconductor Physics and Devices

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Example 7.1: Donald A Neamen - Semiconductor Physics \u0026amp; Devices

Semiconductor: What is Intrinsic and Extrinsic Semiconductor ? P-Type and n-Type Semiconductor

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Chapter 3 D. A. Neamen Problem Solutions Chapter 3 3.1 If α 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 α were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator. 3.2 wave equation is: $\nabla^2 \psi = -k^2 \psi$, $\psi = A e^{i(kx - \omega t)}$ Assume the solution is of the form: $\psi = e^{i(kx - \omega t)}$ Region ...

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 $E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165$ so $E = 1.87 \text{ eV}$ (c) $2? < k_a < 3?$ 1st point: $a = 2.54?$ 2nd point: $a = 3?$ Then $E_5 = 9.704$ $E_6 = 13.537$ so $E = 3.83 \text{ eV}$ (d) $3? < k_a < 4?$ 1st point: $a = 3.44?$ 2nd point: $a = 4?$ Then $E_7 = 17.799$ $E_8 = 24.066 \text{ eV}$ so $E = 6.27 \text{ eV}$ 3.10 $6 \sin \cos \cos ? ? ? a a + a =$

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From $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$ which can be rewritten as $N_D - N_A = N_C \exp [-(E_c - E_F) / kT]$ Then $N_D - N_A = 2.86 \times 10^{19} \exp(-0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$ or $N_D = 1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$
A compensated semiconductor can be fabricated to provide a specific Fermi energy level.

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