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168 Introduction to Semiconductor Materials and Devices
4.20 (a) If $E_c - E_F = 0.28$ eV in gallium arsenide at $T = 375$ K, calculate the values of n_0 and p_0 . (b) Assuming the value of n_0 in part (a) remains constant, determine E_c and p_0 at $T = 300$ K. 4.21 Repeat Problem 4.20 for silicon. 4.22 The Fermi energy level in silicon at $T = 300$ K is as ...

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The semiconductor materials used in electronic devices are doped under precise conditions to control the concentration and regions of p- and n-type dopants. A single semiconductor crystal can have many p- and n-type regions; the p-n junctions between these regions are responsible for the useful electronic behavior.

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