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Semiconductor devices are electronic devices with conductivity between a good conductor and an insulator. It uses the special electrical characteristics of semiconductor materials to accomplish specific functions such as generate, control, receive, transform, and amplify signals, and convert energy. The semiconductor materials of the semiconductor device are silicon, germanium or gallium arsenide, which can be used as rectifiers, oscillators, light emitters,

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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  $T$

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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

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many p- and n-type regions; the p-n junctions between these regions are responsible for the useful electronic behavior.

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