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Introduction To Semiconductor Devices

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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, amplifiers, photometers, and

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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

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300 K. 4.21 Repeat Problem 4.20 for silicon.
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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-

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

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