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• EXERCISE 16.1-1

Quasi-Fermi Levels of a Pumped Semiconductor.

(a) Under ideal conditions at  $T = 0$  K, when there is no thermal electron-hole pair generation [see Fig. 16.1-3(a)], show that the quasi-Fermi levels are related to the concentrations of injected electron-hole pairs  $\Delta n$  by

$$E_{F_e} = E_c + (3\pi^2)^{1/3} \frac{\hbar^2}{2m_e} (\Delta n)^{2/3} \quad (16.1-8a)$$

$$E_{F_h} = E_v - (3\pi^2)^{1/3} \frac{\hbar^2}{2m_h} (\Delta n)^{2/3} \quad (16.1-8b)$$

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