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4.9 Assuming that the diodes in the circuits of Fig. P4.9 are ideal,
find the values of the labeled ~~Microelectronics Chapter 3 The FET:
Example 3.5~~

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(a) $n_i = (1.66 \times 10^{15}) (100)^{3/2} \exp[-0.66] = (1.66 \times 10^{18}) \exp[-38.37] \exp[-6] \approx 2 (86 \times 10) (100) \Rightarrow n_i = 35.9 \text{ cm}^{-3}$ (b) $n_i = (1.66 \times 10^{15}) (300)^{3/2} \exp[-0.66] = (8.626 \times 10^{18}) \exp[-$

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$12.79] \exp \left[\frac{2}{3} \ln \left(\frac{86 \times 10^3}{300} \right) \right] n_i = 2.40 \times 10^{13} \text{ cm}^{-3} \text{ (c)}$
 $n_i = (1.66 \times 10^{15}) \left(\frac{500}{300} \right)^{3/2} \exp \left[\frac{0.66}{kT} \right] = (1.856 \times 10^{19}) \exp \left[\frac{0.66}{kT} \right]$
 $7.674] \exp \left[\frac{2}{3} \ln \left(\frac{86 \times 10^3}{500} \right) \right] n_i = 8.62 \times 10^{15} \text{ cm}^{-3} \dots$

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 $\frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) = \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) \text{ or } 6.3 \times 10^{10} \text{ cm}^{-3} = \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) \text{ Ge: } () ()$
 $\frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) = \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) \times \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) = \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right)$
66. $0 \exp \left(\frac{2}{kT} (E_g - E_f) \right) = \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right) \text{ in or } 13.3 \times 10^{10} \text{ cm}^{-3} = \frac{3}{2} \exp \left(\frac{2}{kT} (E_g - E_f) \right)$
_____ EX1.2 (a) (i ...

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Assume that the BJT in the common-emitter circuit shown in Figure 8.4 has limiting factors of: β_{min} , and β_{max} . Neglecting second breakdown effects, determine the minimum value of R_L such that the Q-point of the transistor always stays within the safe operating area for: (a) β_{min} , and (b) β_{max} . In each case, determine the maximum collector current and maximum transistor power dissipation.

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