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Chapter 1 Exercise Solutions EX1.1 3/ 2

$\exp \left( \frac{E_g}{kT} \right) = \frac{N_c N_v}{n_i^2}$  GaAs:

$(1.8 \times 10^{18} \text{ cm}^{-3})^2 = \frac{1.4 \times 10^{19} \text{ cm}^{-3} \times 2.1 \times 10^{19} \text{ cm}^{-3}}{n_i^2}$   $\exp \left( \frac{1.42 \text{ eV}}{0.0259 \text{ eV}} \right) = \frac{2.94 \times 10^{38} \text{ cm}^{-6}}{n_i^2}$

$300 \text{ K}$   $n_i = \sqrt{\frac{2.94 \times 10^{38} \text{ cm}^{-6}}{\exp(54.8)}} = 1.8 \times 10^6 \text{ cm}^{-3}$  or  $6.3 \times 10^6 \text{ cm}^{-3}$

$1.8 \times 10^6 \text{ cm}^{-3} = n_i$  Ge:  $(1.8 \times 10^6 \text{ cm}^{-3})^2 = \frac{1.8 \times 10^{19} \text{ cm}^{-3} \times 6.0 \times 10^{18} \text{ cm}^{-3}}{n_i^2}$

$\exp \left( \frac{0.66 \text{ eV}}{0.0259 \text{ eV}} \right) = \frac{1.08 \times 10^{38} \text{ cm}^{-6}}{n_i^2}$   $300 \text{ K}$

$10^6 \text{ cm}^{-3} = n_i$   $6.6 \times 10^6 \text{ cm}^{-3} = n_i$  or  $1.3 \times 10^7 \text{ cm}^{-3} = n_i$

$10^6 \text{ cm}^{-3} = n_i$   $6.6 \times 10^6 \text{ cm}^{-3} = n_i$  or  $1.3 \times 10^7 \text{ cm}^{-3} = n_i$  EX1.2 (a) (i ...

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Electronic circuits that process digital signals are called digital circuits.  $v(t)$   $v(t)$  Logic 1  $V_H$  Logic 0  $V_L$  0 Time (a)



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(b) Figure PR1.2 Graphs of analog and digital signals: (a) analog signal versus time and (b) digital signal versus time 4 Prologue I Prologue...

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current source shown in Figure 10.9 such that  $I_{REF} = 2 \text{ mA}$  and  $I_O = 50 \mu\text{A}$ . Let  $V_+ = 15 \text{ V}$  and  $V_- = 0$ . The transistors are matched, and  $V_{BE} = 0.7 \text{ V}$  at  $1 \text{ mA}$ . For the circuit shown in Figure 4.1,  $V_{DD} = 3.3 \text{ V}$  and  $R_D = 10 \text{ k}\Omega$ .

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Chapter 4 Exercise Solutions EX4.1  $g_m = 2 K_n (V_{GS} - V_{TN})$  and  $I_D = K_n (V_{GS} - V_{TN})^2$   
 $0.75 = 0.5 (V_{GS} - 0.8) \Rightarrow V_{GS} = 2.025 \text{ V}$   
 $g_m = 2 (0.5) (2.025 - 0.8) \Rightarrow g_m = 1.22 \text{ mA/V}$   
 $r_o = 1/\lambda I_{DQ} = 1$

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## Solutions

$$\begin{aligned}
 (0.01)(0.75) &= 133 \text{ k}\Omega \quad r_o = 133 \text{ k}\Omega = \\
 \text{EX4.2 } A_v &= -g_m R_D \quad g_m = 2 K_n I_{DQ} \\
 &= 2 (0.5)(0.4) = 0.8944 \text{ mA/V} \quad A_v = - ( \\
 0.8944 )(10) &= -8.94 \quad \text{EX4.3 (a) } \left( \frac{R_2}{R_1 + R_2} \right) \left( \frac{V_{DD}}{5} \right) \\
 &= \left( \frac{320}{520 + 320} \right) (5) = 1.905 \text{ V} \\
 I_{DQ} &= 0.20 \text{ mA} \\
 (1.905 - 0.8) &\dots
 \end{aligned}$$

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