

Microelectronic Circuit Design

Fourth Edition - Part III

Solutions to Exercises

Updated - 09/25/10

CHAPTER 10

Page 534

$$(a) \quad A_p = |A_v| |A_i| = 4 \times 10^4 (2.75 \times 10^3) = 1.10 \times 10^{13}$$

$$(b) \quad V_o = \sqrt{2P_o R_L} = \sqrt{2(20W)(16\Omega)} = 25.3 \text{ V} \quad | \quad A_v = \frac{V_o}{V_i} = \frac{25.3V}{0.005V} = 5.06 \times 10^3$$

$$I_o = \frac{V_o}{R_L} = \frac{25.3V}{16\Omega} = 1.58 \text{ A} \quad | \quad I_i = \frac{V_i}{R_s + R_{in}} = \frac{0.005V}{10k\Omega + 20k\Omega} = 0.167 \mu A \quad | \quad A_i = \frac{I_o}{I_i} = \frac{1.58 \text{ A}}{0.167 \mu A} = 9.48 \times 10^6$$

$$A_p = \frac{P_o}{P_i} = \frac{25.3V(1.58 \text{ A})}{0.005V(0.167 \mu A)} = 4.79 \times 10^{10} \quad | \quad \text{Checking: } A_p = (5.06 \times 10^3)(9.48 \times 10^6) = 4.80 \times 10^{10}$$

$$A_{v_{dB}} = 20 \log(5060) = 74.1 \text{ dB} \quad | \quad A_{i_{dB}} = 20 \log(9.48 \times 10^6) = 140 \text{ dB} \quad | \quad A_{p_{dB}} = 10 \log(4.80 \times 10^{10}) = 107 \text{ dB}$$

$$A_{v_{dB}} = 20 \log(4 \times 10^4) = 92.0 \text{ dB} \quad | \quad A_{i_{dB}} = 20 \log(2.75 \times 10^3) = 169 \text{ dB} \quad | \quad A_{p_{dB}} = 10 \log(1.10 \times 10^{13}) = 130 \text{ dB}$$

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$$G_m = g_{m1} = \frac{1}{20k\Omega + 76(50k\Omega)} = 0.262 \mu S \quad | \quad A = g_{m1} = 0.262 \mu S (76)(50k\Omega) = 0.995$$

$$R_{out} = R_{o2} = \left[\frac{1}{50k\Omega} + \frac{1}{20k\Omega} + \frac{75}{20k\Omega} \right]^{-1} = 262 \Omega \quad | \quad g_{m1} = -\frac{g_{m2}}{(20k\Omega)} = -\frac{262\Omega}{(20k\Omega)} = -0.0131$$

$$R_{in} = \frac{1}{g_{m1}} = 3.82 \text{ M}\Omega \quad | \quad A = g_{m1} = 0.995 \quad | \quad R_{out} = \frac{1}{g_{o2}} = 262 \Omega$$

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JR Anderson



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