

Microelectronic Circuit Design

Third Edition - Part I

Solutions to Exercises

CHAPTER 1

Page 11

$$V_{\text{avg}} = \frac{5.12V}{2^{10} \text{ bits}} = \frac{5.12V}{1024 \text{ bits}} = 5.00 \text{ mV} \qquad V_{\text{avg}} = \frac{5.12V}{2} = 2.560V$$

$$1100010001_2 = 2^9 + 2^8 + 2^4 + 2^0 = 785_{10} \qquad V_O = 786(5.00 \text{ mV}) = 3.925 \text{ V}$$

or $V_O = (2^{-1} + 2^{-2} + 2^{-5} + 2^{-10}) 5.12V = 3.912 \text{ V}$

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The dc component is $V_A = 4V$.

The signal consists of the remaining portion of v_A : $v_s = (5 \sin 2000\pi t + 3 \cos 1000 \pi t)$ Volts.

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$$i_{sc} = i_1 + \beta i_1 = \frac{v_s}{R_1} + \beta \frac{v_s}{R_1} = (\beta + 1) \frac{v_s}{R_1} \qquad v_{oc} = \frac{(\beta + 1) R_2}{(\beta + 1) R_2 + R_1} v_s$$

$$R_{th} = \frac{v_{oc}}{i_{sc}} = \frac{(\beta + 1) R_2}{(\beta + 1) R_2 + R_1} \frac{R_1}{(\beta + 1)} = \frac{1}{\frac{(\beta + 1)}{R_1} + \frac{1}{R_2}} \rightarrow R_{th} = R_2 \parallel \frac{R_1}{(\beta + 1)}$$

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$$v_o = -5 \cos(2000\pi t + 25^\circ) = -[-5 \sin(2000\pi t + 25^\circ - 90^\circ)] = 5 \sin(2000\pi t - 65^\circ)$$

$$V_o = 5 \angle -65^\circ \qquad V_s = 0.001 \angle 0^\circ \qquad A_v = \frac{5 \angle -65^\circ}{0.001 \angle 0^\circ} = 5000 \angle -65^\circ$$

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