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Determine the short-circuit current in Thevenin's form circuit. Use Ohm's law to calculate . Therefore, the short-circuit current in Thevenin's form circuit is . Determine the short-circuit current in Norton's form circuit. Note that the current always takes the low impedance path. Therefore,

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By D. A. Neamen Problem Solutions _____ 1.5 (a) p-type; C_m ; $16 \times 10^{10} \text{ op}$
3? () 4 16 262 1024.3 10 108.1 ? $x = x = o i o p n n C_m$ 3? (b) p-
type; C_m ; $16 \times 10^{10} \text{ op}$ 3? () 10 16 2132 1076.5 10 104.2 $x = x = o i o p n$
 $n C_m$ 3? _____ 1.6 (a) n-type (b) () 16 3 2102 3 3 16 5 10 C_m 1.5 10
4.5 10 C_m 5 10 $o d i o o n N n p n$? ? = = $x x = = x x$ (c) 16 3 5 10
 $C_m o d n N$? = = x From Problem 1.1(a)(ii) 11 3 3.97 10 ...

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Exercises CHAPTER 1 Page 11 $\epsilon V_{LSB} = 5.12V$ 210bits = 5.12V 1024bits
=5.00 mV $V_{MSB} = 5.12V$ 2 =2.560V 1100010001 2 =2 9+28+24+20=785 10 V O

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$=785(5.00\text{mV})=3.925\text{ V}$ or $V_O = 2(1+2+2+6+2+10) 5.12\text{V}=3.925\text{ V}$ Page 12
 $\epsilon V_{\text{LSB}} = 5.0\text{V}$ 28bits = 5.00V 256bits =19.53 mV $N= 1.2\text{V}$ 5.00V

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Exercise 1-3 This figure belongs to Exercise 1.15. $v_i = 100\text{ mV}$ $v_s = 10\text{V}$
 100 k 1 M 2 k 100 k v_2 L 1 k 100 Stage 1 Stage 2 Thus, $P_i = 0.5$
 $\times 0.5 = 0.25\text{ W}$ and $A_p = 6.25 \times 10^3$ $0.25 \times 10^6 = 25 \times 10^3$ $10\log A_p = 44$
dB Ex: 1.13 Open-circuit (no load) output voltage = $A_{v_o} v_i$ Output
voltage with load connected = $A_{v_o} \frac{R_L}{R_L + R_o}$ $0.8 = \frac{1}{1 + R_o}$ $R_o = 0.25\text{ k} = 250$

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