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Vinicius. From Prob. 1.4, the number of transistors/ μ P will be 8.85×10^{10} . in 2020. Thus there will be the equivalent of $8.85 \times 10^{10} / 6 \times 10^8 = 148$ Pentium IV processors. 1-2 ©R. C. Jaeger & T. N. Blalock 6/9/06 1-3 6/9/06 1.8 P = 75×10^6 tubes () 1.5W tube () = 113 MW! I = 1.13×10^8 W 220V = 511 kA!

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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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Solution-Problems-Chapter 8 (Differential Amplifiers) - As ...

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Exercise 1-3 This figure belongs to Exercise 1.15. $v_i = 100 \text{ mV}$ $v_s = 10 \text{ V}$ $R_1 = 100 \text{ k}\Omega$ $R_2 = 1 \text{ k}\Omega$ $R_3 = 100 \text{ k}\Omega$ $V_L = 1 \text{ k}\Omega$ $100 \text{ Stage 1 Stage 2}$ Thus, $P_i = 0.5 \times 0.5 = 0.25 \mu\text{W}$ and $A_p = 6.25 \times 10^{-3} \times 0.25 \times 10^{-6} = 25 \times 10^3$ $10 \log A_p = 44 \text{ dB}$ Ex: 1.13 Open-circuit (no load) output voltage = A_{v_o} i Output voltage with load connected = $A_{v_o} \frac{R_L}{R_L + R_o}$ $0.8 = \frac{1}{R_o + 1} \Rightarrow R_o = 0.25 \text{ k}\Omega = 250$

