

chapter 4

(4.1)



$$K = 20 \text{ mA/V}$$

$$\left| \frac{v_{out}}{v_{in}} \right| = 15 \quad v_{in} = v_i$$

$$v_{out} = -I_1 R_L = -K R_L v_{in}$$

$$\Rightarrow \frac{v_{out}}{v_{in}} = -K R_L \Rightarrow \left| \frac{v_{out}}{v_{in}} \right| = K R_L$$

$$\Rightarrow K R_L = 15 \Rightarrow R_L = \frac{15}{20 \text{ mA/V}} = 750 \Omega$$

$$\boxed{R_L = 750 \Omega}$$

Fundamentals Of Microelectronics Solution Manual

Chapter 4

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