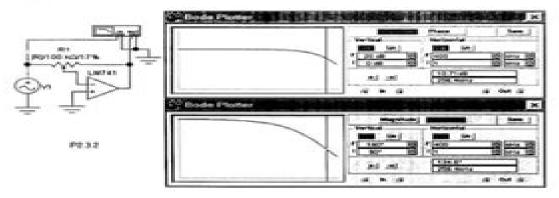
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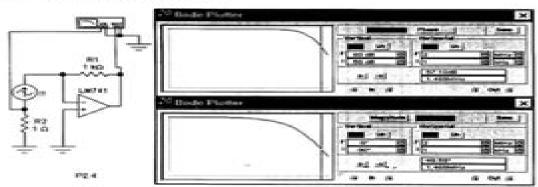
Operational Amplifiers



- 2.4 (a) $V_{\alpha} = -R \cdot I$
 - (b) The circuit equation is $-(V_O + R \cdot I)A(x) = V_O$, plugging in the opamp model $A(x) = \alpha 4/x$, we get

$$T(s) = \frac{V_O}{I} = -\frac{RA(s)}{1 + A(s)} = -\frac{R\omega_s}{s + \omega_s}$$

It is seen that the -3-dB cutoff frequency of the circuit is same as the opamp unity-gain frequency as, For LM741, it is 1.5 MHz.



(c) The simulation circuit is shown in P2.4. The 1-Ω resistor converts the input current into voltage with negligent effects on the operation of the original circuit. At moderate frequencies below αt.368, the observed gain of the circuit is 60 dB, same as the calculated value. The f.368 of the circuit is 1.48 MHz, close enough to the theoretical value of 1.5 MHz.

Analog Filters Schaumann Solution Manual

CL Gary

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