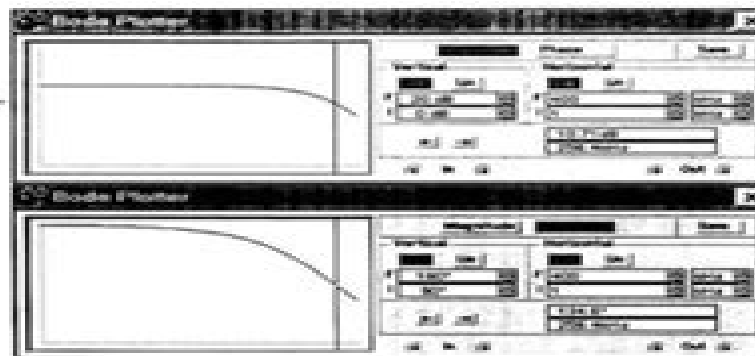


## Operational Amplifiers

2-2



P2.3.2

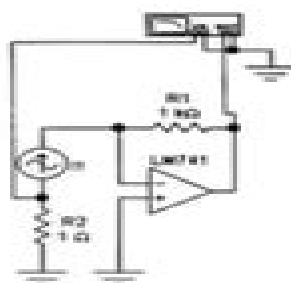


2.4 (a)  $V_O = -R \cdot I$

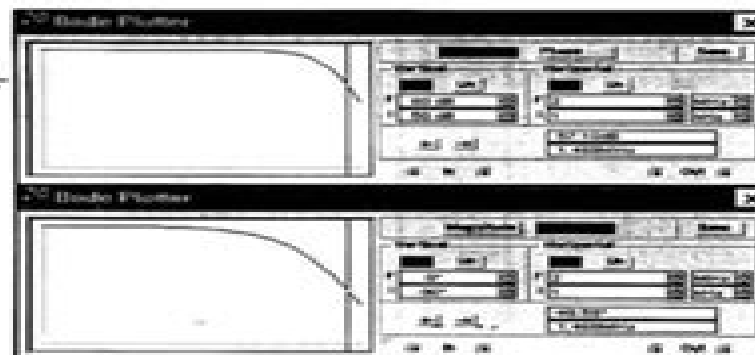
(b) The circuit equation is  $-(V_O + R \cdot I)A(s) = V_O$ , plugging in the opamp model  $A(s) = \omega_t/s$ , we get

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

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



P2.4



(c) The simulation circuit is shown in P2.4. The 1- $\Omega$  resistor converts the input current into voltage with negligible effects on the operation of the original circuit. At moderate frequencies below  $\omega_{\text{uag}}$ , the observed gain of the circuit is 60 dB, same as the calculated value. The  $f_{\text{uag}}$  of the circuit is 1.48 MHz, close enough to the theoretical value of 1.5 MHz.

# Analog Filters Schaumann Solution Manual

**N Noddings**



## **Analog Filters Schaumann Solution Manual:**

Design of Analog Filters Professor Chairman of the Department of Electrical Engineering and Computer Engineering Rolf Schaumann, Rolf Schaumann, 2003-03 The Instructor's Solutions Manual to Accompany Design of Analog Filters is a supplement to Schaumann and Van Valkenburg's main text. It contains solutions to all the problems and is available free of charge to adopting professors. **IEEE Circuits & Devices**, 2001. *The British National Bibliography* Arthur James Wells, 2001. **Pure and Applied Science Books, 1876-1982**, 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings. Covers all disciplines of science and technology e.g. engineering, agriculture and domestic arts. Also contains at least 5000 titles published before 1876. Has many applications in libraries, information centers and other organizations concerned with scientific and technological literature. Subject index contains main listing of entries. Each entry gives cataloging as prepared by the Library of Congress. Author title indexes. **International Aerospace Abstracts**, 1981. **Forthcoming Books** Rose Arny, 2000. **Government Reports Annual Index**, 1984. **Government Reports Annual Index: Keyword A-L**, 1984. Analog Filters, 2010.

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