Chapter 10, Problem 73.

If the input impedance is defined as $\mathbf{Z}_{in} = \mathbf{V}_s/\mathbf{I}_s$, find the input impedance of the op amp circuit in Fig. 10.116 when $\boldsymbol{R}_1 = 10\ \text{k}\Omega$, $\boldsymbol{R}_2 = 20\ \text{k}\Omega$, $C_1 = 10$ nF, $C_2 = 20$ nF, and $\omega = 5000$ rad/s.

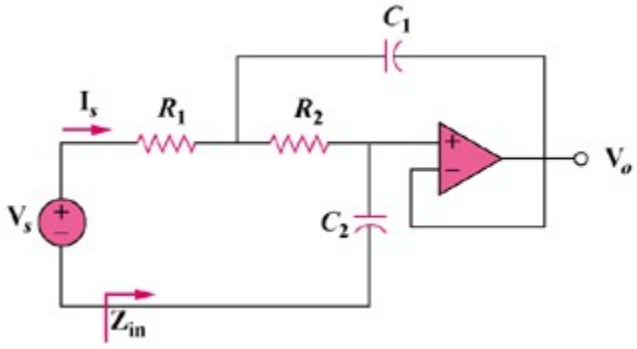

Figure 10.116
For Prob. 10.73.