

Frequency Response (Log-Magnitude and Phase)

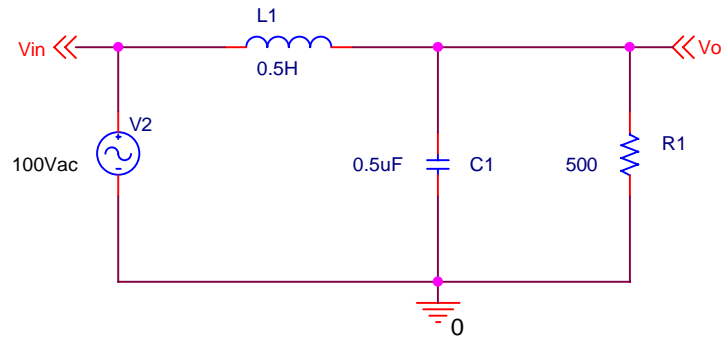
Purpose: Plot the log-magnitude (LM) and phase responses for $H(s) = V_o(s)/V_{in}(s)$

Analysis: Perform an AC Sweep where frequency varies from 10 Hz to 10 kHz.

Show that $H(s) = V_o(s)/V_{in}(s) = 4E6/(s + 2000)^2$

or $H(j\omega) = 1/(1 + j\omega/2000)^2$

so $\omega_1 = \text{cutoff frequency} = 2000 \text{ rad/s}$ or $f_1 = 318 \text{ Hz}$



Note that OFFPAGE symbols were added so that V_{in} and V_o could be conveniently labeled on the circuit.

Use the source voltage VAC (not VSIN) with the AC Sweep command.

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