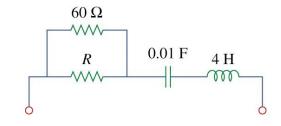
P1 Design a parallel RLC circuit with $R=2k\Omega$ that has the characteristic function $s^2+100s+10^6=0$

Hint: see readings to see how the characteristic function maps to α and ω_o .

P2 Calculate the value of R so the response of the circuit is critically damped.



P3 Find i(t) in the circuit below if the capacitor is initially discharged.

