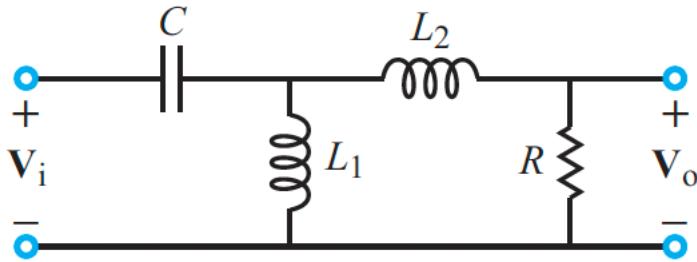


1. (50 pts) For the following circuit, (i) calculate the transfer function $\hat{H}(\omega)$, and (ii) the frequency ω_0 at which the transfer function becomes purely real. (iii) What kind of filter does this circuit implement?



2. (50 points) For the following circuit, (i) calculate the transfer function $\hat{H}(\omega)$, and (ii) the frequency ω_0 at which the transfer function becomes purely real. (iii) What kind of filter does this circuit implement?

