Figure 5.30: Series and parallel L-C tuning circuits.

5.13. An electric "bridged-T" filter is shown in Fig. 5.31. The output voltage is the voltage across R_2. Draw a system linear graph and derive a set of state equations. Derive an output equation for the output voltage.
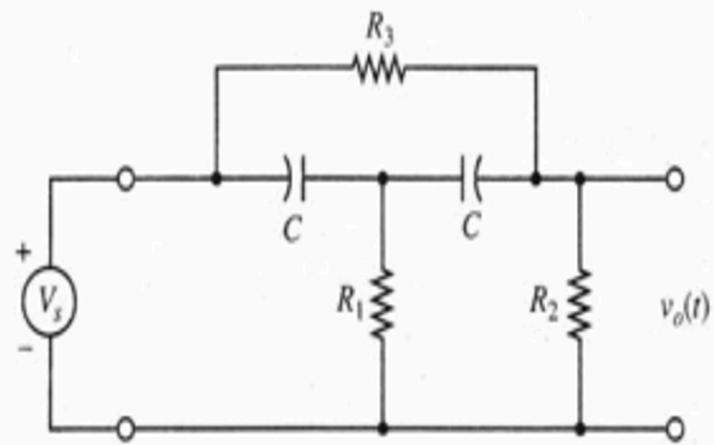

Figure 5.31: An electrical filter network.

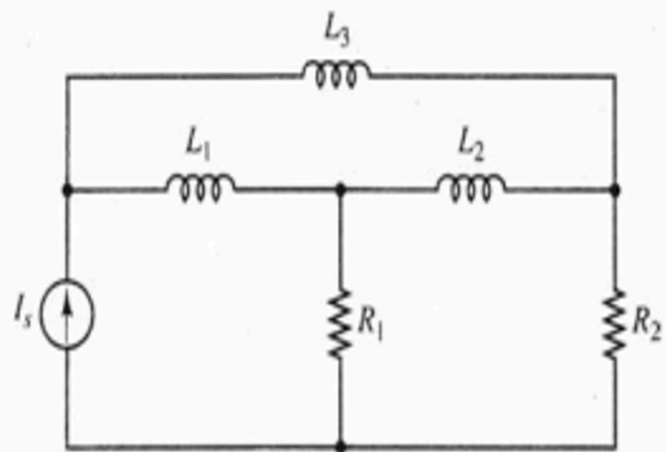**5.14.** An electric circuit containing three inductive devices is shown in Fig. 5.32.

Figure 5.32: An inductive network.