Concept Question 8-13: Assuming the values of V_s , R_s , R_L , and L_L are fixed, what values of R_M and C_M lead to maximum transfer of power from the source to R_L ?

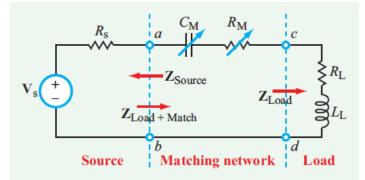


Figure 8-14: Matching network in between the source and the load.

To match the load to the source in the circuit, we should select

$$R_{\rm M} = R_{\rm s} - R_{\rm L}$$
$$C_{\rm M} = \frac{1}{\omega^2 L_{\rm L}}$$