

Special Problem II.A-33

A lossless transmission line is terminated with a load Z_L . Show that:

1. if $Z_L = 0$, then $V_0^- = -V_0^+$
2. if $Z_L = \infty$, then $V_0^- = V_0^+$
3. if $Z_L = jX$, then $|V_0^-| = |V_0^+|$
4. if $Z_L = Z_0$, then $V_0^- = 0$