5.2 - Single-Stub Tuning

Reading Assignment: pp. 228-235

Q: If we cannot use "lumped" elements like inductors or capacitors to build lossless matching networks, what can we use?

A: Recall that a section of lossless transmission line is purely reactive, thus we can build lossless matching networks using specific lengths of transmission lines.

We call these lengths of transmission line "distributed" elements.

The distributed element analogue of the lumped element L-network is the single-stub tuner.

Just like the L-network, there are **two** versions of this design:

HO: THE SHUNT-STUB TUNER

HO: THE SERIES-STUB TUNER