

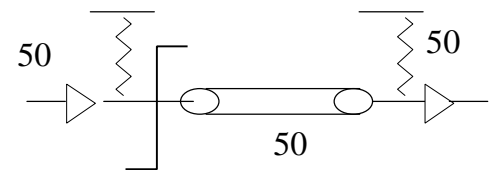
Question: There are two possible setups for serial links on the right:
Parallel termination and source termination.

Design a noise analysis table (I.e. noise margin/BER table) for the
Two possible setups.

Here are the pertinent details:

- The transmitter uses current mode logic and switches 10mA of current.
- The attenuation of the line is 15%
- Each termination resistor is mismatched from the 50 Ohm transmission line by 20%
- This is a homogenous medium, so the $K_{fx}=0$
- Near End crosstalk, $K_{rx}=30\%$... Assume the victim and aggressor lines are transmitting data in the same direction (I.e. from left to right)
- Receiver offset+sensitivity = 20mV
- Gaussian Noise = 10mV
- Ignore all reflections which take more than two round trips. Make any approximations.
- Assume there is only one victim and one aggressor signal lines.

A. Parallel Termination



B. Source Termination

