LEARNING OBJECTIVES - Lecture 11 (Modeling the Wireline Channel: Intersymbol Interference)

After lecture, you should be able to:

1. Describe the physical properties of signal propagation over wires, such as linearity, time-invariance, causality, and dispersion.
2. For systems that use pulse-shaping, derive the relationship between the continuous-time impulse response of the channel and the discrete-time impulse response of the channel.
3. In particular, discuss how sampling rate, pulse shaping filter, and wireline channel impulse response influence the filter taps in the discrete-time model.