

The physical characteristics of the communication medium volly widery & hence so do the channel models. wireline channels are typically well modeled as linear à time invariant, while Oftical fiber channels exhibit non-11 neagities. wireks mobile channels are particularly challenging be cause of the time vagiations caused by mobility, & due to the potential for interperence due to the broadcast naterie of the medium.

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* The purpose of commynication technologies is to empowes 45885 to send messages to each other some sources 67 data are inhermally digital in nortugerinen theis natural & nortive representation is in the form of bit seguence. * To ensure that we can distinguish from noise, we will map bits to signals using a fixed set of discrete values. * Clok & Dorta se covely: Both the togn Smitter execeiver use an internal clock oscillator running at the sample rate to determine when to generate or acquire the next voltage sample.