

o We have described an electrical communication system in rather broad terms based on the implicit assumption that the message signal is a continuous time-varying waveform. o A third reason may be that digital communication systems are often cheaper to implement. Digital Communication System o Alternatively, an analogue source output may be converted into a digital form, and the message can be transmitted via digital modulation and demodulated as a digital signal at the receiver. o Analog signals can be transmitted directly over the communication channel via carrier modulation and demodulated accordingly at the receiver. o We refer to such continuous-time signal waveforms as analogue signals and to the corresponding information sources that produce such signals as analog sources.