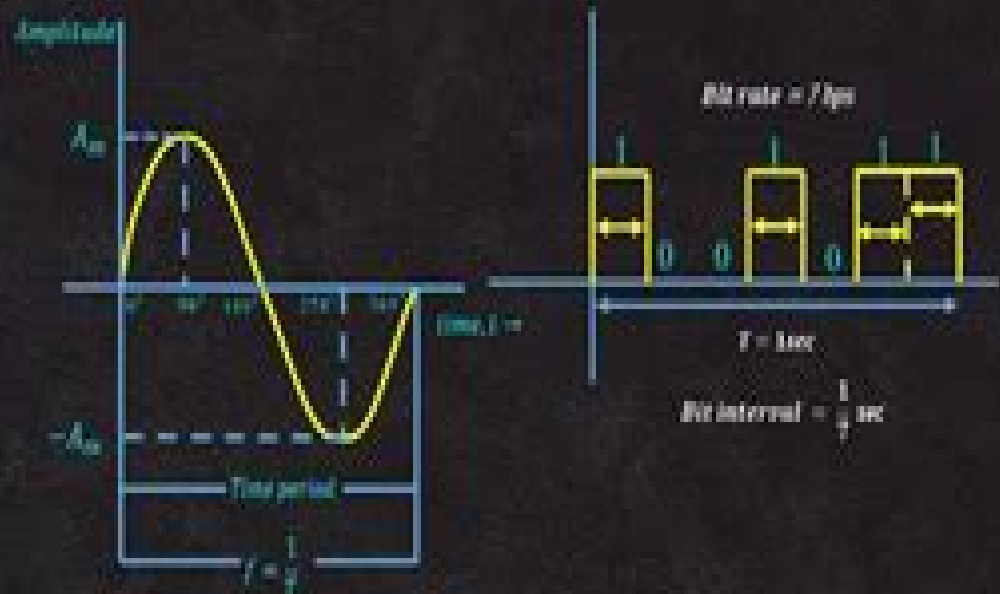


Analog and Digital Communication System

Base of comparison	Analog Communication	Digital Communication
Type of signal used	Analog signal	Digital signal
Amplitude of signals	Two continuous (one positive to negative value)	Has 2 levels either low (or high)
Noise Immunity	Gets highly affected by the noise	Gets less affected by the noise
Broadcasting capability	Limited number of channels	Large number of channels
Error probability	Error Probability is high	Error Probability is low
Signal Security	Has lower noise immunity	Has higher noise immunity
Encryption or coding	Not possible	Possible
Type of multiplexing	Frequency division multiplexing	Time division multiplexing
System cost	Low System cost	High System cost
Power consumption	High Power consumption	Low Power consumption
Bandwidth	Low bandwidth	High bandwidth
Complex realization	Complex realization is complex	Complex realization is easy



02

Analog Communication

Analog And Digital Communication Systems

Chao Zhang



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