

Communications (2) [3 – 0 – 1]

Course #:0904478

Prereq.: 0904456+0904303

Representation of white and narrow-band noise. Behavior of continuous wave modulation (AM, DSBSC, SSB, and FM) in the presence of additive white Gaussian noise. Quantization noise. Noise analysis in PCM and DM systems. Matched filter receiver. Error probability analysis for baseband digital transmission. Behavior of digital communication systems in the presence of noise: ASK, PSK, DPSK, FSK and QAM. Signal space representation. BER for M-ary digital signals Introduction to Information Theory. Introduction to Error control coding.