



Introduction to Analog and Digital Communications

Phil Schniter

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These modules comprise a one-quarter introductory course on analog and digital communication, with an emphasis on digital communication, and include many Matlab examples. The contents are summarized as follows. First, a review of preliminary material is given (including the Fourier transform, Dirac delta, LTI systems, and Matlab filter design). Next, the communications channel, describing the effects of signal propagation, is described. Several forms of analog communication are then detailed: AM, QAM, VSB, FM. An introduction to power spectra is then presented, followed by the complex-baseband equivalent channel representation, for use in the sequel. Digital communication is described next, starting with Nyquist pulse-shaping, matched filtering, and discrete-time implementation/modeling. After eye diagrams and constellation diagrams are detailed, expressions for symbol error rate (using the Q function) are derived.

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