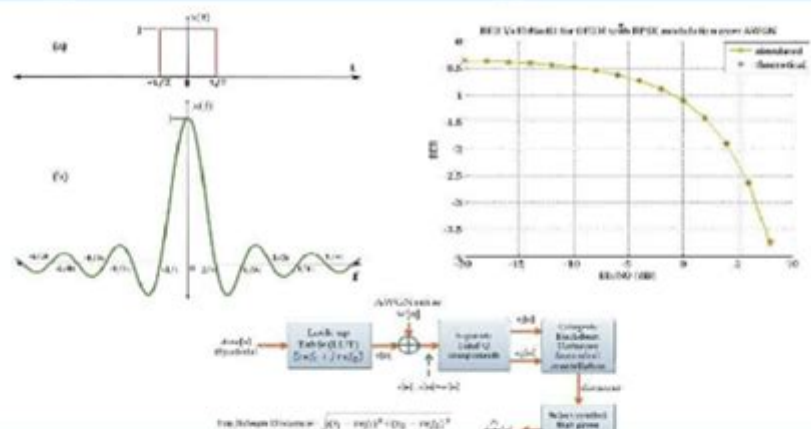
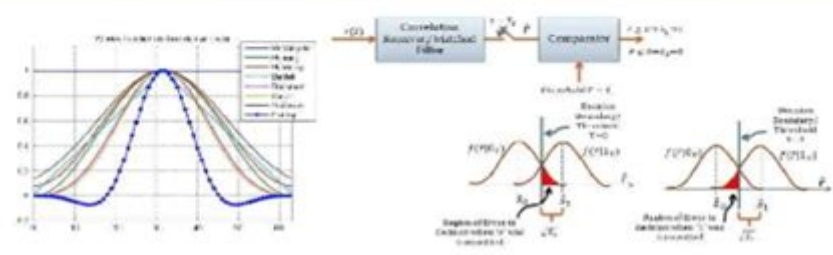


# Simulation of Digital Communication Systems Using Matlab



## Mathuranathan Viswanathan



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The fundamentals of simulation of digital communication system are the sampling theory and the complex envelope technique to represent signals and noise in a proper way. In section 2.2, we covered the sampling theory briefly. In this section, we will cover the complex envelope technique.

### **Simulation of Communication Systems**

The simulator is useful in evaluating the performance of wire-less multimedia services and the associated signal processing structures and algorithms for current and next generation wireless mobile communication systems.

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The actual system simulation is carried out in MATLAB function MCSimple which has the function signature below. The parameters set in the controlling script are passed as inputs. The body of the function simulates the transmission of the signal and subsequent demodulation. The number of incorrect decisions is determined and returned.

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Both are used in digital communication systems. Polar diagrams are the basis of many

displays used in digital communications, although it is common to describe the signal vector by its rectangular coordinates of I (In-phase) and Q (Quadrature). 2.4 Signal changes or modifications in polar form This figure shows different forms of modulation in polar form. Magnitude is represented as the ...

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Simulation results in the context of several digital communication systems are proposed. Compared with the conventional MC method, the proposed Kernel-based estimator provides good precision even for high SNR with very limited number of data samples. Second, the Gaussian Mixture Model (GMM), which is a semi-parametric PDF estimation technique, is used to estimate the BER. Compared with the ...

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