Basics about a Communication system

Modulation

* Analog: AM. FM. PM and ID
* Digital ASK, FKS, PSK. Pulse modulations, Line coding

Additive White Gaussian Noise Model

Bit error Probability

Fading

* Types: Slow, Fast, Flat Fading Frequency Selective Fading
* Models: Rayleight, Rice, Nakagami, Log-Normal

Diversity Technique

* Selective Diversity
* Maximum Ratio Combining

Equalizer

Linear, Decision Feedback, adaptive linear, RLS algorithm

Coding

* Convolutional code, Space time block code
* Huffman Code, Basics about Information Coding

CDMA/DSSS

* Text Book: Analog and Digital Modulation--BP Lathi
* Analog and Digital Modualtion—Schaum Outline Series