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Wireless Communication Engineering I

By Kiyomichi ARAKI

[(Tentative) Schedule in 2010 Spring Semester]

[1]	4/16	Introduction, Electromagnetic Wave: Information, Energy, Sensing
[2]	4/23	Channel Fading, Channel Estimation, Diversity Technique
[3]	4/30	Noise & Interference, Spatial Signal Processing
[4]	5/14	MIMO Transmission: Spatial Multiplexing
[5]	5/21	UWB Transmission: Low Frequency Efficiency
[6]	6/4	Digital Modulation & Demodulation
[7]	6/18	Filtering, Signal Conditioning and Processing
[8]	6/25	Software Defined Radio & Cognitive Radio
[9]	7/2	Digital RF Circuit Design : Combination of CT and DT Systems
[10]	7/9	Error Correction Codes & Information Theory
[11]	7/16	Multiple Access and Multi-user Communication
[12]	7/23	Power Amplifiers: Nonlinear Distortion, Efficiency, Architecture
[13]	7/30	Cryptography for secure networking