HKUSTx: ELEC1200.2x A System View of Communications: From Signals to Packets (Part 2)

RESOURCES

Week	Topic	Handouts	Supplementary Reading
1	Topic 1: Course Overview	Download	
	Topic 2: Lossless Source Coding: Hamming Codes	Download	Ref. Wiki: Huffman coding
2	Topic 3: The Frequency Domain	Download	Ref. Book: (F) P.78-82 Ref. Wiki: Fourier series
	Topic 4: Lossy Source Coding	Download	Ref. Link: How MP3 Compression Works Ref. Wiki: MP3
3	Topic 5: Filters and the Frequency Response	Download	Ref. Link: Frequency response
	Topic 6: The Discrete Fourier Transform	Download	Ref. Book: (OWN) P.226-228 Ref. WikiBooks: Discrete Fourier transform Ref. Wiki: Discrete Fourier transform
4	Topic 7: Signal Transmission - Modulation	Download	Ref. Book: (F) P.93-117 Ref. Wiki: Amplitude modulation
	Topic 8: Signal Transmission - Demodulation	Download	Ref. Book: (F) P.118-151 Ref. Wiki: Product detector

5	Topic 9: IQ Modulation	Download	Ref. Wiki: Quadrature amplitude modulation Ref. Link: QPSK modulation and demodulation
	Topic 10: Summary and Review	Download	

REFERENCE BOOKS

(F)	Frenzel, Louis E, "Principles of electronic communication systems." McGraw-Hill, 2007, 3rd ed.
(OWN)	Alan V. Oppenheim, Alan S. Willsky and S. H. Nawab, Signals and Systems, 2nd Ed., Prentice Hall, 1997


Download on the
App Store


ANDROID APP ON
Google play