After the Midtern Exam. Nov8 (Monday) Topics today: Modulation, Demodulation Example: Road Map for the 2nd half of the Semester. Industrial TSK-Phase Shift Keying Touristed ACOS(20076244)

Tot Solution 802.11b Standard) "Coming of the Phase, ASin (12) 4-1 (...) I mod/DEMOD Technique. Note: Thase, Asin(well+4) ... (1) phase" shift" We can change phase value to make to curry impormation, e, y, o Z. Background on modulation. To gain fast Transmission Bit Rate What is modulation! A technique

By multiplying a modulating punction

to a exist function to move the

modulating function to a higher frequency Vanye. Block Ringvam to illustrate modulation Technique f(x) "modualating Signal" Why? (The objective) The objective of move the Base Band Signal (e.g. modulating Signal) to Righer Fregrency Range. Better Move Efficient Transmission Better Random Poise Resistance,

Ref on Theoretical Background, Former

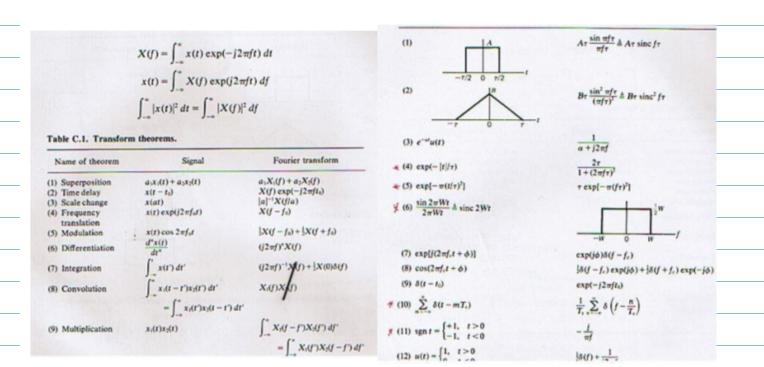
Translam. Z018F-117. on github

Troperlies in Farmer Transform provides foundation for good understanding of the Technique

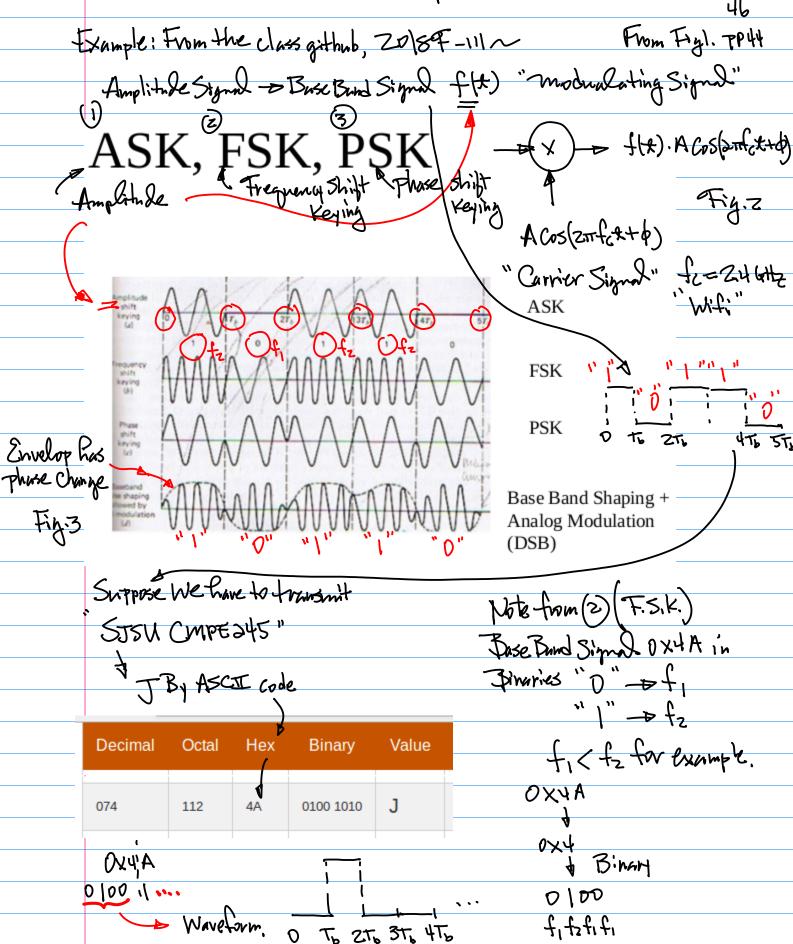
Ref: github, 2018F-118~

Ref: from the class github. Z0/8F-111~

## Theoretical Background. Review







DX4, Y

A Cosparfetto;)

Modulated Signal P-Thase 1 = 0 Degree Fz=phasez=180 Degree from Egypti).

0100 =1,2. ...(1)

PIPZPIPI

for Phase 1: A Cos(zmfcx+a)

= A Cos (Smfct to)

=A Cos 2TIfct

for phase Z: A cos(200fc4+02)

= A Cos (2nfc+T) = - A cos zorfet

