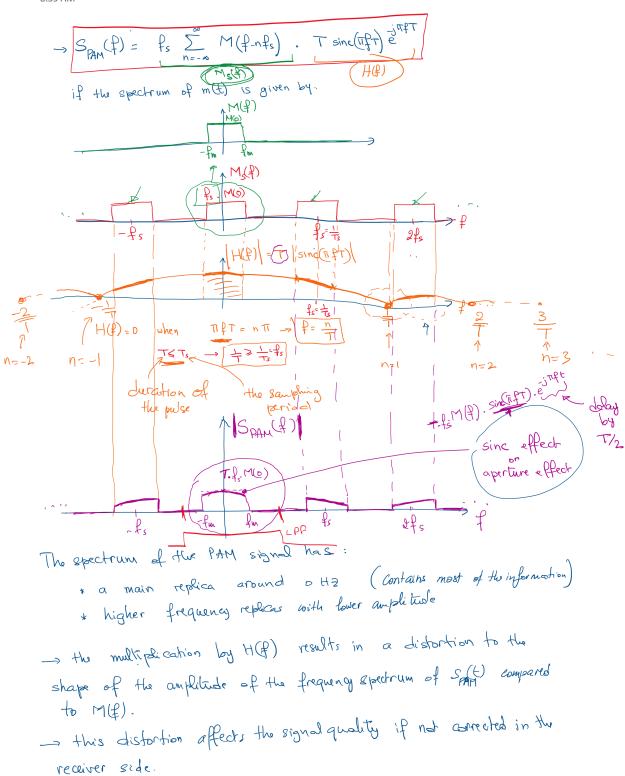
## Online Lecture # 10 - Digital Baseband Modulation - Pulse Amplitude Demodulation

Monday, April 13, 2020 8:59 AM



to recover the original message m (t) from a PAM signal. \* remove the high frequency replicas \_\_\_\_ LPF (reconstruction filter)

\* Compensate for the aperture effect.

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\* multiply in freq. domain by: |He(f)|= ( |Sinc(17fT)| (Equalizing filter) Equalizer Span(t)

Reconstruction

Filter he(t)

Reconstruction

Reconstruction

Filter he(t) an LTI system \* Demodulation of PAM signals in the presence of noise; Spant x(t) x(t) y(t) (n=0) objective is to choose h(t) so that y(nTs+T) has the highest ratio of signal to noise To do the analysis in time-domain of the effect of noise on PAM demodulation. We will consider only one pulse g(t)