

The figure below. Draw and write the necessary figures and expressions for XAM(t), XAM(t), y. Assume at the input of the delutor is DSB+c applied.

XAM(t) = \frac{\quad quare-law}{\quad quare-law} \frac{\chi^2(t)}{\quad quare-law} \frac{\chi^2(

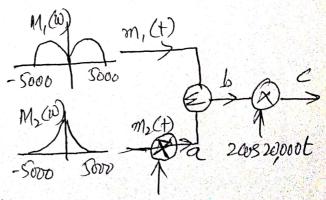
2 CLO-3, Level: C5, PLO3

Two signals m, (+) and m, (+), both band-limited to 5000 rad s, are to be transmitted simultaneously over a channel by the multiplexing scheme shown in figure below. The signal at point b is the multiplexed signal, which new modulates a charmer of frequency 20,000 rad/s. The modulated signal at Point c is transmitted over a channel.

a) sketch signal speits at Point, a, b and c

b) what must be the BW of the channel 3.

Signal m, Lt) and m2(t) from the modulated Iisnal at Point C.



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Assignment #3.5

- Analyze the wideband Frequency Modulated and describe the fallacy exposed while estimating the Bond wildth.
- (2) An angle-Modulated signal with carried frequency we = 21×106 is described by the equation

\$\(\phi\) = 10 cos (We++ 0.1 \sin 2000\taut)

- a) find Power of the Modulated Signal
- b) Find the frequency deviation of.
- e) find the Phase deviation A.
- d) Estimate the BW of PEM (5).