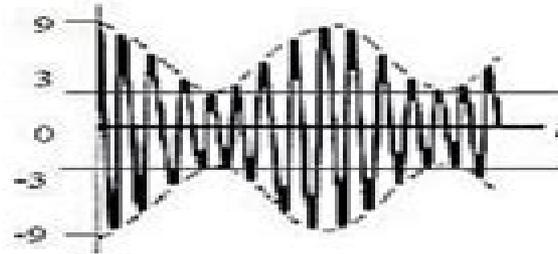


Amplitude Modulation Solved Problems

Example Problems on Amplitude Modulation

Problem 1

A sinusoidally modulated ordinary AM waveform is shown below.



- (a) Determine the modulation index.
- (b) Calculate the transmission efficiency.
- (c) Determine the amplitude of the carrier which must be added to attain a modulation index of 0.3.

(a). Using $\begin{cases} s_{\max} = A_c(1 + m_a) \\ s_{\min} = A_c(1 - m_a) \end{cases} \quad \therefore A_c = 6 \quad ; \text{ the modulation index } m_a = \frac{1}{3}$

(b). $\mu = \frac{m_a^2}{2 + m_a^2} = \frac{1}{9}$

(c). Using $m_a = \frac{a_m}{A_c}$, the new required carrier amplitude $A_c' = 10$

So, the amplitude of the carrier should be added by 4 to achieve the 0.3 modulation index.

Problem 2

The efficiency μ of a single-tone AM signal is defined as the percentage of the total power carried by the sidebands, that is:

$$\mu = \frac{P_{\text{sidebands}}}{P_t} \times 100\%$$

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