

angle) of the function. Thus we have that the instantaneous radial frequency $\omega = d\theta/dt = \dot{\theta}(t)$, and the corresponding frequency $f = \omega/2\pi$ is

$$f = \frac{1}{2\pi} \frac{d}{dt} [\omega_0 t + \theta(t)] = \frac{\omega_0}{2\pi} + \frac{1}{2\pi} \frac{d}{dt} \theta(t) \quad (4.2-2)$$

The waveform $s(t)$ is, therefore, modulated in frequency.

In initial discussions of the sinusoidal waveform it is customary to consider such a waveform as having a fixed frequency and phase. In the present discussion we have generalized these concepts somewhat. To acknowledge this generalization, it is not uncommon to refer to the frequency f in Eq. (4.2-2) as the instantaneous frequency and $\theta(t)$ as the instantaneous phase. If the frequency variation about the nominal frequency ω_0 is small, that is, if $d\theta(t)/dt \ll \omega_0$, then the resultant waveform will have an appearance which is readily recognizable as a "sine wave," albeit with a period which changes somewhat from cycle to cycle. Such a waveform is represented in Fig. 4.2-1. In this figure the modulating signal is a square wave. The frequency-modulated signal changes frequency whenever the modulation changes level.

Among the possibilities which suggest themselves for the design of a modulator are the following. We might arrange that the phase $\theta(t)$ in Eq. (4.1-1) be directly proportional to the modulating signal, or we might arrange a direct proportionality between the modulating signal and the derivative, $d\theta(t)/dt$. From Eq. (4.2-2), with $f_0 = \omega_0/2\pi$

$$\frac{d\theta(t)}{dt} = 2\pi(f - f_0) \quad (4.2-3)$$

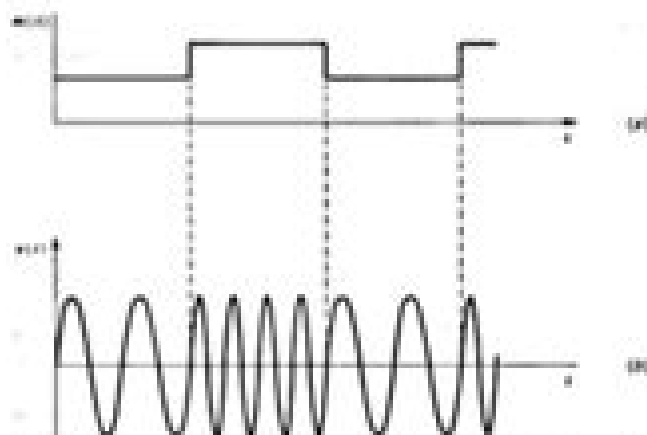


Figure 4.2-1 An angle-modulated waveform. (a) Modulating signal. (b) Frequency-modulated sinusoidal carrier signal.

where f is the instantaneous frequency. Hence in this latter case the proportionality is between modulating signal and the departure of the instantaneous frequency from the carrier frequency. Using standard terminology, we refer to the modulation of the first type as phase modulation, and the term frequency modulation refers only to the second type. On the basis of these definitions it is, of course, not possible to determine which type of modulation is involved simply from a visual examination of the waveform or from an analytical expression for the waveform. We would also have to be given the waveform of the modulating signal. This information is, however, provided in any practical communication system.

4.3 RELATIONSHIP BETWEEN PHASE AND FREQUENCY MODULATION

The relationship between phase and frequency modulation may be visualized further by a consideration of the diagrams of Fig. 4.3-1. In Fig. 4.3-1a the phase-modulator block represents a device which furnishes an output $s(t)$ which is a carrier, phase-modulated by the input signal $m_1(t)$. Thus

$$s(t) = A \cos [\omega_0 t + k' m_1(t)] \quad (4.3-1)$$

k' being a constant. Let the waveform $m_2(t)$ be derived as the integral of the modulating signal $m_1(t)$ so that

$$m_2(t) = k'' \int_{-\infty}^t m_1(t) dt \quad (4.3-2)$$

in which k'' is also a constant. Then with $k = k'/k''$ we have

$$s(t) = A \cos [\omega_0 t + k \int_{-\infty}^t m_2(t) dt] \quad (4.3-3)$$



Figure 4.3-1 Illustrating the relationship between phase and frequency modulation.

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