

The available carrier power at the input to the FM detector is $E_c^2/4R$, and the available noise power at the FM detector input is kT_cB_N (as explained in Sec. 12.5), so the input carrier-to-noise ratio, denoted by C/N , is

$$\frac{C}{N} = \frac{E_c^2}{4RkT_cB_N} \quad (9.5)$$

When a sinusoidal signal of frequency, f_m , frequency modulates a carrier of frequency, f_c : The instantaneous frequency is given by $f_i = f_c + \Delta f \sin 2\pi f_m t$, where Δf is peak frequency deviation. The output signal power following the FM detector is

$$P_s = A\Delta f^2 \quad (9.6)$$

where A is a constant of the detection process.

The thermal noise at the output of a bandpass filter, for which $f_c \gg B_N$, has a randomly varying amplitude component and a randomly varying phase component. (It cannot directly frequency modulate the carrier, the frequency of which is determined at the transmitter, which is at a great distance from the receiver and may be crystal controlled). When the carrier amplitude is very much greater than the noise amplitude the noise amplitude component can be ignored for FM, and the carrier angle as a function of time is $\theta(t) = 2\pi f_c t + \phi_n(t)$, where $\phi_n(t)$ is the noise phase modulation. Now the instantaneous frequency of a phase modulated wave in general is given by $\omega_i = d\theta(t)/dt$ and since $\omega_c = 2\pi f_c$, the equivalent FM resulting from the noise phase modulation is

$$f_{eqs} = f_c + \frac{1}{2\pi} \frac{d\phi_n(t)}{dt} \quad (9.7)$$

What this shows is that the output of the FM detector, which responds to equivalent FM, is a function of the time rate of change of the phase change. Now as noted earlier, the available noise power at the input to the detector is kT_cB_N and the noise spectral density, which is the noise power per unit bandwidth just kT_c . A result from Fourier analysis is that the power spectral density of the time derivative of a waveform is $(2\pi f)^2$ times the spectral density of the input. Thus the output spectral density as a function of frequency is $(2\pi f)^2 kT_c$. The variation of output spectral noise density as a function of frequency is sketched in Fig. 9.11a. Since voltage is proportional to the square root of power, the noise voltage spectral density will be proportional to frequency as sketched in Fig. 9.11b.

Figure 9.11a shows that the output power spectrum is not a flat function of frequency. The available noise output power in a very small band Δf would be given by $(2\pi f)^2 kT_c \Delta f$. The total average noise output power

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