

Ingeniería Informática

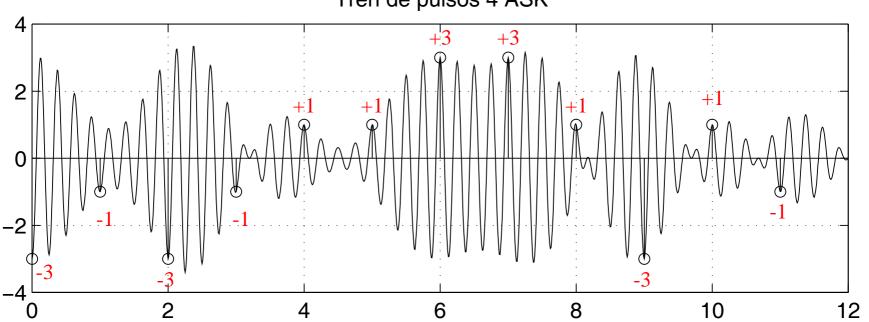
Medios de Transmisión (MT)

Tema 9 Transmisión digital paso banda

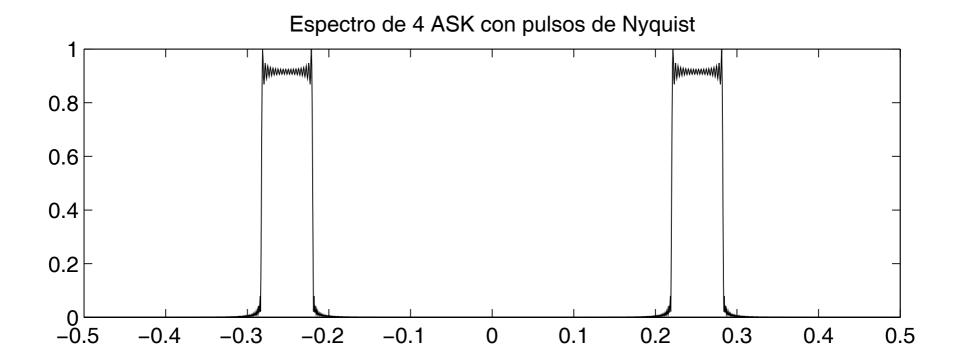
Curso 2006-07



Tren de pulsos 4 ASK



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Probabilidad de error de un sistema M-ASK

$$p(e) = \frac{2(M-1)}{M} Q \left(\sqrt{\frac{6\log_2 M}{M^2 - 1} \frac{E_b}{N_0}} \right)$$

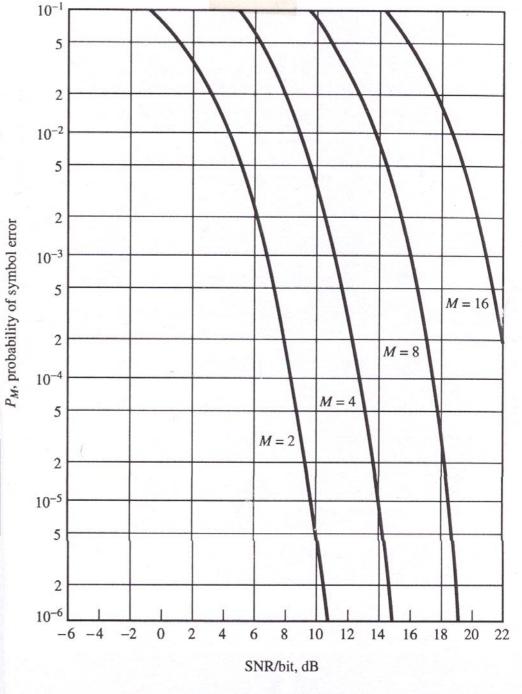
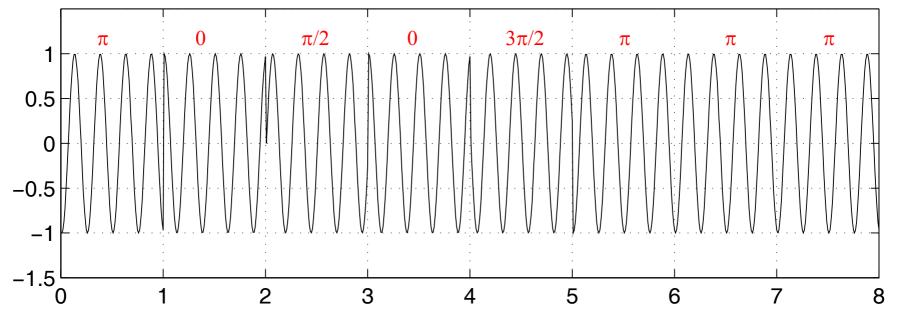
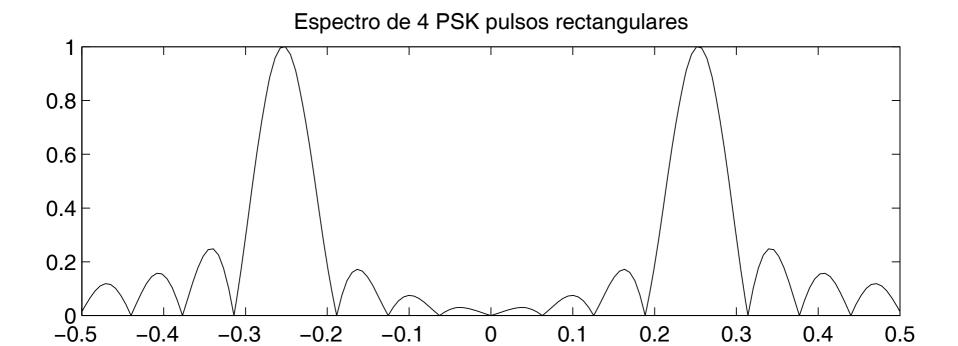
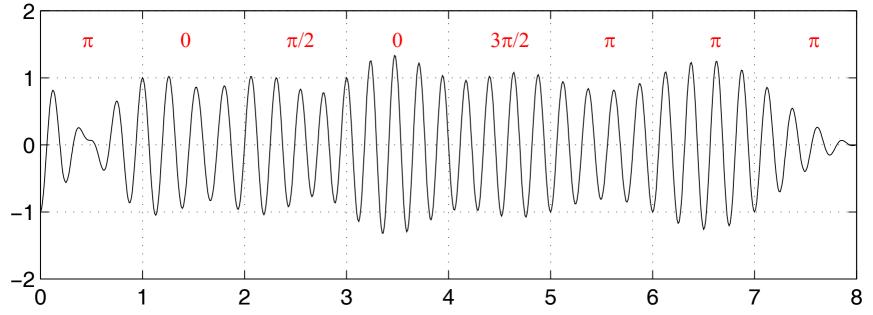


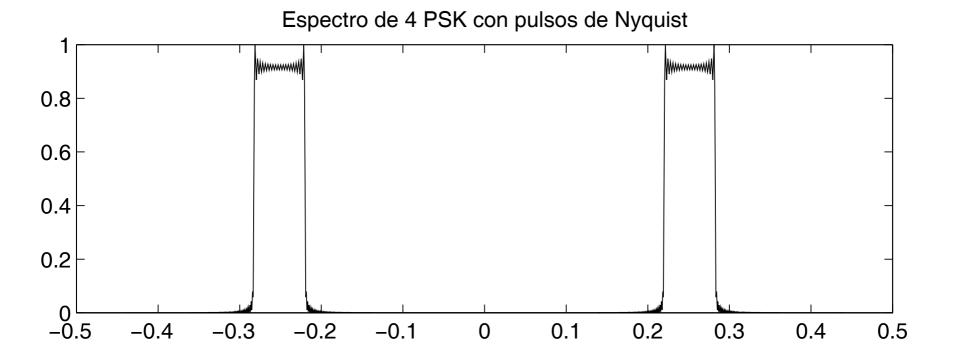
FIGURE 7.44. Probability of a symbol error for PAM.



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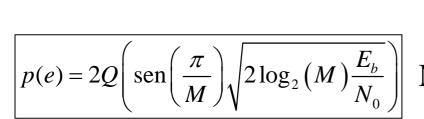
Probabilidad de error de un sistema M-PSK

$$p(e) = Q\left(\sqrt{\frac{2E_b}{N_0}}\right)$$

$$M=2$$

$$p(e) \approx 2Q \left(\sqrt{\frac{2E_b}{N_0}} \right)$$

$$M=4$$



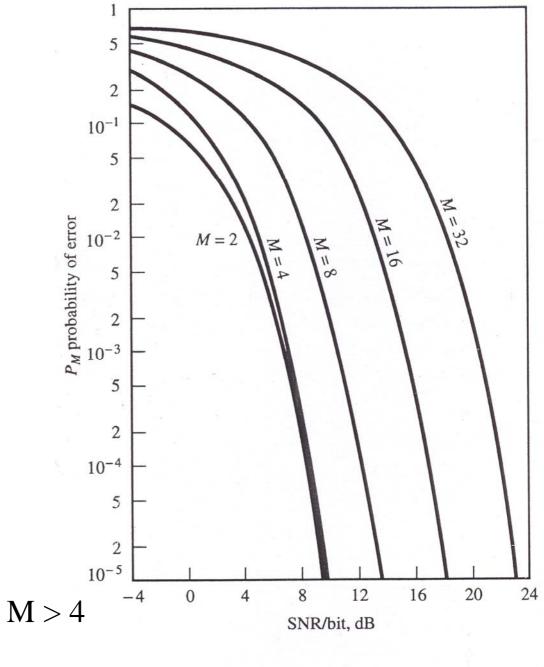
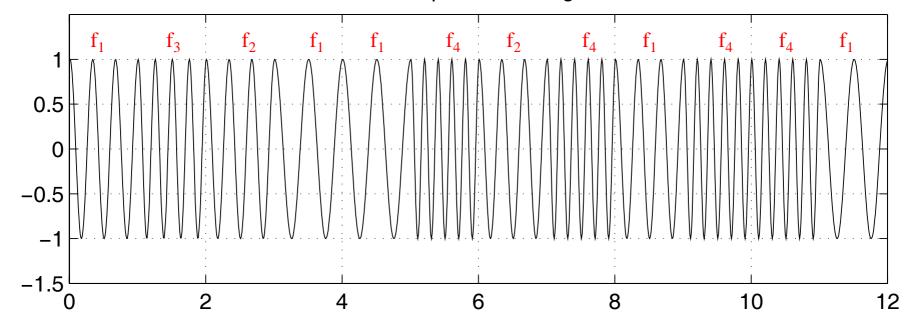
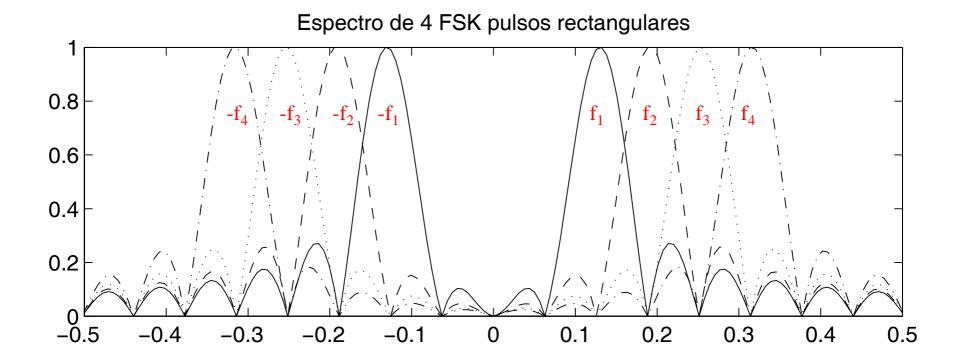


FIGURE 9.15. Probability of a symbol error for PSK signals.





Probabilidad de error de un sistema M-FSK

