

Chapter 3

1. $d = vt$

$$r + r' = d + \frac{2\phi_0^2}{d}$$

Equivalent low-pass channel impulse response is given by

$$c(\tau, t) = \alpha_0(t)e^{-j\phi_0(t)}\delta(\tau - \tau_0(t)) + \alpha_1(t)e^{-j\phi_1(t)}\delta(\tau - \tau_1(t))$$

$$\alpha_0(t) = \frac{\lambda\sqrt{G_0}}{4\pi d} \text{ with } d = vt$$

$$\phi_0(t) = 2\pi f_c \tau_0(t) - \phi_{D_0}$$

$$\tau_0(t) = d/c$$

$$\phi_{D_0} = \int_t 2\pi f_{D_0}(t) dt$$

$$f_{D_0}(t) = \frac{v}{\lambda} \cos \theta_0(t)$$

$$\theta_0(t) = 0 \quad \forall t$$

$$\alpha_1(t) = \frac{\lambda R_1 \sqrt{G_1}}{4\pi(r+r')} = \frac{\lambda R_1 \sqrt{G_1}}{4\pi(d + \frac{2\phi_0^2}{d})} \text{ with } d = vt$$

$$\phi_1(t) = 2\pi f_c \tau_1(t) - \phi_{D_1}$$

$$\tau_1(t) = (r + r')/c = (d + \frac{2\phi_0^2}{d})/c$$

$$\phi_{D_1} = \int_t 2\pi f_{D_1}(t) dt$$

$$f_{D_1}(t) = \frac{v}{\lambda} \cos \theta_1(t)$$

$$\theta_1(t) = \pi - \arctan \frac{h}{d/2} \quad \forall t$$

2. For the 2 ray model:

$$\tau_0 = \frac{l}{c}$$

$$\tau_1 = \frac{x + x'}{c}$$

$$\therefore \text{delay spread}(T_{ms}) = \frac{x + x' - l}{c} = \frac{\sqrt{(h_t + h_r)^2 + d^2} - \sqrt{(h_t - h_r)^2 + d^2}}{c}$$

when $d \gg (h_t + h_r)$

$$T_{ms} = \frac{1}{c} \frac{2h_t h_r}{d}$$

$$h_t = 10m, \quad h_r = 4m, \quad d = 100m$$

$$\therefore T_{ms} = 2.67 \times 10^{-9} s$$

3. Delay for LOS component = $\tau_0 = 23$ ns

Delay for First Multipath component = $\tau_1 = 48$ ns

Delay for Second Multipath component = $\tau_2 = 67$ ns

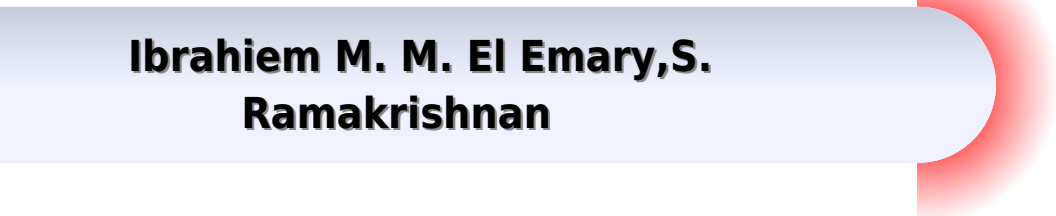
τ_c = Delay for the multipath component to which the demodulator synchronizes.

$$T_m = \max_m \tau_m - \tau_c$$

So, when $\tau_c = \tau_0$, $T_m = 44$ ns. When $\tau_c = \tau_1$, $T_m = 19$ ns.

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