

```

end
end
% p =
%
%      0      0.0199      0.9801
%      0.0023      0.0068      0.9909
%      0.0033      0.0047      0.9921
%      0.0023      0.0020      0.9957
%      0.0023      0.0005      0.9973
%      0.0036      0.0000      0.9964
%      0.0066      0      0.9934
%      0      0      1.0000

```

15. (a)

$$S(\tau, \rho) = \begin{cases} \alpha_1 \delta(\tau) & \rho = 70Hz \\ \alpha_2 \delta(\tau - 0.022\mu sec) & \rho = 49.5Hz \\ 0 & else \end{cases}$$

The antenna setup is shown in Fig. 15

From the figure, the distance travelled by the LOS ray is  $d$  and the distance travelled by the first multipath component is

$$2\sqrt{\left(\frac{d}{2}\right)^2 + 64}$$

Given this setup, we can plot the arrival of the LOS ray and the multipath ray that bounces off the ground on a time axis as shown in Fig. 15

So we have

$$\begin{aligned} 2\sqrt{\left(\frac{d}{2}\right)^2 + 8^2} - d &= 0.022 \times 10^{-6} 3 \times 10^8 \\ \Rightarrow 4\left(\frac{d^2}{4} + 8^2\right) &= 6.6^2 + d^2 + 2d(6.6) \\ \Rightarrow d &= 16.1m \end{aligned}$$

$f_D = v \cos(\theta)/\lambda$ ,  $v = f_D \lambda / \cos(\theta)$ . For the LOS ray,  $\theta = 0$  and for the multipath component,  $\theta = 45^\circ$ . We can use either of these rays and the corresponding  $f_D$  value to get  $v = 23.33m/s$ .

(b)

$$d_c = \frac{4h_t h_r}{\lambda}$$

$d_c = 768$  m. Since  $d \ll d_c$ , power fall-off is proportional to  $d^{-2}$ .

(c)  $T_m = 0.022\mu s$ ,  $B^{-1} = 0.33\mu s$ . Since  $T_m \ll B^{-1}$ , we have flat fading.

16.

(a) Outdoor, since delay spread  $\approx 10 \mu sec$ .

Consider that  $10 \mu sec \Rightarrow d = ct = 3km$  difference between length of first and last path

(b) Scattering function

$$S(\tau, \rho) = F_{\Delta t}[\mathcal{A}_c(\tau, \Delta t)]$$

$$= \frac{1}{10} rect\left(\frac{1}{10}\rho\right) \text{ for } 0 \leq \tau \leq 10\mu sec$$

The Scattering function is plotted in Fig. 16

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