

```

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)

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

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

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

$f_D = v \cos(\theta) / \lambda$, $v = f_D \lambda / \cos(\theta)$. 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 $v = 23.33 \text{ m/s}$.

(b)

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

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

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

16. (a) Outdoor, since delay spread $\approx 10 \mu\text{sec}$.

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

(b) Scattering function

$$\begin{aligned} S(\tau, \rho) &= F_{\Delta t}[\mathcal{A}_c(\tau, \Delta t)] \\ &= \frac{1}{10} \text{rect}\left(\frac{1}{10} \rho\right) \text{ for } 0 \leq \tau \leq 10 \mu\text{sec} \end{aligned}$$

The Scattering function is plotted in Fig. 16

Wireless Communication Goldsmith Solution Manual

**Thirumalaisamy P.
Velavancorresponding**



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