

$\therefore$, when $K = \left(\frac{\sqrt{G_1}}{4\pi}\right)^2$ and $d_0 = \lambda$
The two models are equal.

13. $P_{\text{noise}} = -160\text{dBm}$
 $f_c = 1\text{GHz}$, $d_0 = 1\text{m}$, $K = (\lambda/4\pi d_0)^2 = 5.7 \times 10^{-4}$, $\lambda = 0.3$, $\gamma = 4$
 We want $SNR_{\text{received}} = 20\text{dB} = 100$
 $\therefore$ Noise power is 10^{-10}

$$P = P_t K \left(\frac{d_0}{d}\right)^\gamma$$

$$10^{-17} = 10 K \left(\frac{0.3}{d}\right)^4$$

$$d \leq 260.7\text{m}$$

14. d = distance between cells with reused freq
 p = transmit power of all the mobiles

$$\left(\frac{S}{I}\right)_{\text{uplink}} \geq 20\text{dB}$$

- (a) Min. S/I will result when main user is at A and Interferers are at B
 d_A = distance between A and base station #1 = $\sqrt{2}\text{km}$ d_B = distance between B and base station #1 = $\sqrt{2}\text{km}$

$$\left(\frac{S}{I}\right)_{\min} = \frac{P \left[\frac{G_A}{4\pi d_A}\right]^2}{2P \left[\frac{G_B}{4\pi d_B}\right]^2} = \frac{d_B^2}{2d_A^2} = \frac{(d_{\min} - 1)^2}{4} = 100$$

$\Rightarrow d_{\min} - 1 = 20\text{km} \Rightarrow d_{\min} = 21\text{km}$ since integer number of cells should be accommodated in distance d $\Rightarrow d_{\min} = 22\text{km}$

- (b)

$$\frac{P_s}{P_n} = k \left[\frac{d_0}{d}\right]^\gamma \Rightarrow \left(\frac{S}{I}\right)_{\min} = \frac{Pk \left[\frac{d_0}{d_A}\right]^\gamma}{2Pk \left[\frac{d_0}{d_B}\right]^\gamma} =$$

$$\frac{1}{2} \left[\frac{d_B}{d_A}\right]^\gamma = \frac{1}{2} \left[\frac{d_{\min} - 1}{\sqrt{2}}\right]^\gamma = \frac{1}{2} \left[\frac{d_{\min} - 1}{\sqrt{2}}\right]^3 = 100$$

$\Rightarrow d_{\min} = 9.27 \Rightarrow$ with the same argument $\Rightarrow d_{\min} = 10\text{km}$

- (c)

$$\left(\frac{S}{I}\right)_{\min} = \frac{k \left[\frac{d_0}{d_A}\right]^\gamma_A}{2k \left[\frac{d_0}{d_B}\right]^\gamma_B} = \frac{(d_{\min} - 1)^4}{0.04} = 100$$

$\Rightarrow d_{\min} = 2.41\text{km} \Rightarrow$ with the same argument $d_{\min} = 4\text{km}$

15. $f_c = 900\text{MHz}$, $h_t = 20\text{m}$, $h_r = 5\text{m}$, $d = 100\text{m}$

Large urban city	$PL_{\text{largecity}} = 353.52\text{dB}$
small urban city	$PL_{\text{smallcity}} = 325.99\text{dB}$
suburb	$PL_{\text{suburb}} = 207.8769\text{dB}$
rural area	$PL_{\text{ruralarea/countryside}} = 70.9278\text{dB}$

As seen , path loss is higher in the presence of multiple reflectors, diffractors and scatterers

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