3 PROBLEMS

Topics

Cellular Basics (Ch 1)

Frequency Planning (Ch 2)

# of channels, # of cells, Size of cells

co channel interference (2.5.1)

adjacent channel interference (2.5.2)

trunking + grade of service (2.6)

cell splitting (2.7.1)

cell sectoring (2.7.2)

Path Loss - Large scale fading (Ch 3)

field theory

Friis TX eqn (3.2.3)

Reflection (3.4)

Ground Bounce (3.6)

Diffraction (3.7.1)

Rough surface scattering (3.8)

path loss models

Global Path Loss models

Log ~~Normal~~ Distance (3.9.1)

Okumura (3.10.3)

Hata (3.10.4)

indoor 3.11.1, 3.2

Multipath - Small scale fading (Ch 4)

Doppler (4.1.2)

Raleigh (4.6.1)

Ricean (4.6.2)

Link Budgets