

Fading Channels & Mobile Communications

IIT Kharagpur

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Exp 8: Handoff

Name: SAHIL

Input Parameters	
Reuse: 7 ,Model: Urban Micro	Pt(dBm): 41
fc(GHz): 2.5	Beam Width(deg): 70
Rotate(deg): 30	Cell Radius(m): 116
hT(m): 10	hM(m): 1.5
Sigma(dB): 4	Vertical Tilt(deg): 12
SNR(dB): 5	Band Width(MHz): 5
Noise Figure(dB): 7	Noise Power(dBm): -100.01
Pr0(dBm): -95.01	Time Slot(s): 20

Exp. Results								
SNR	No.Call drops	No.Hand offs	Delta1	Delta2	Reading Time(ms)	Outage Time(ms)	% Outage	Alpha
5.0	0.0	12.0	3.0	3.0	20188.0	0.0	0.0	0.1
5.0	4.0	281.0	3.0	3.0	20016.0	128.0	0.64	0.1
5.0	0.0	1.0	3.0	3.0	21025.0	0.0	0.0	0.1

Observation
We observe a substantial increase in total handoffs as the mobile speed increases. Call Drops are also increased but not substantially.

(Signature of SAHIL)

(Signature of Faculty)