

About the midterm exam:

Q2 & Q3

involved

↳ modeling of the problem

- identifying relevant expressions

or conditions

- formulating the optimization problem

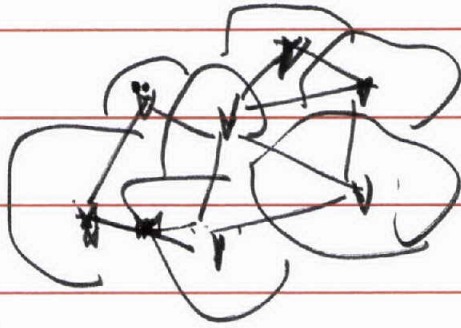
- stochastic channels.

needs the the SCS paper

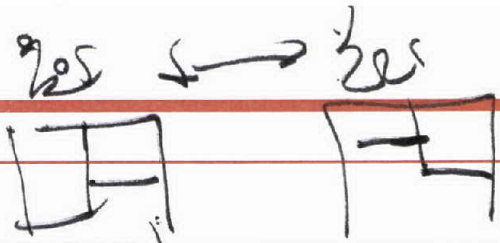
Why do we bring in Probability into wireless networks?

How much do we really need?

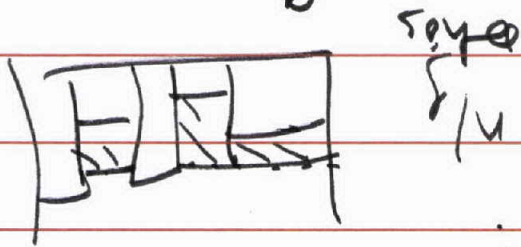
3.1: (of normal fading) ← channel quality is random



for first fading, the (R/n) ratios will be (stochastically varying)

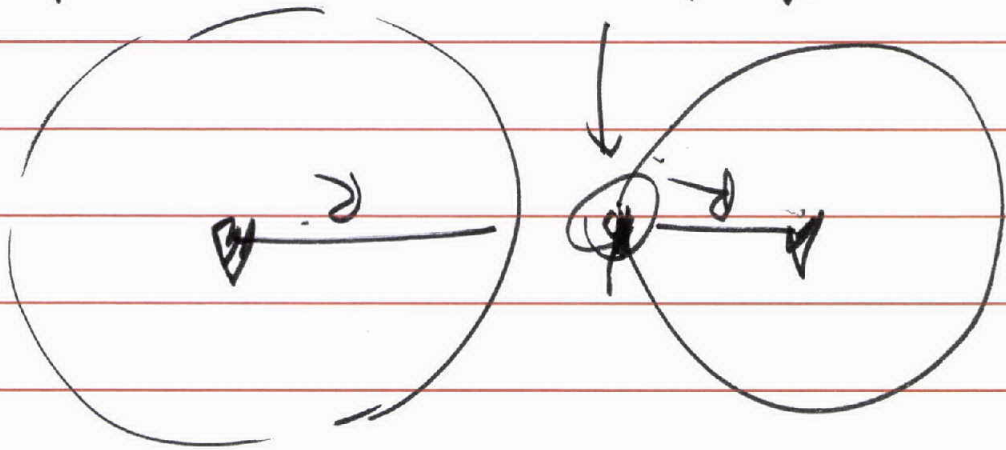


only suitable for slow fading channels.



Worstcase:

cell-edge user experiences the SINR lowest



Time constraint & change determines whether we can solve

the problem as a

classical/deterministic optimization problem

or as a

stochastic/

probabilistic optimization problem.



hybridly: Area some variable that can

∴ it is unknown/uncertainty. performance Objective depends on it. Goal: max the Expected Performance.

a distribution, & the