

EC807 Introduction to Wireless and Cellular Communications 3-0-0-3

Overview of Cellular Systems and evolution, Cellular Concepts – Frequency reuse, Cochannel and Adjacent channel Interference, C/I, Handoff, Blocking, Erlang Capacity, Wireless propagation Part 1 - Link budget, Free-space path loss, Noise figure of receiver, Wireless propagation Part II - Multipath fading, Shadowing, Fading margin, Shadowing margin, Antenna Diversity, Wireless Channel Capacity, MIMO, CDMA, OFDM.