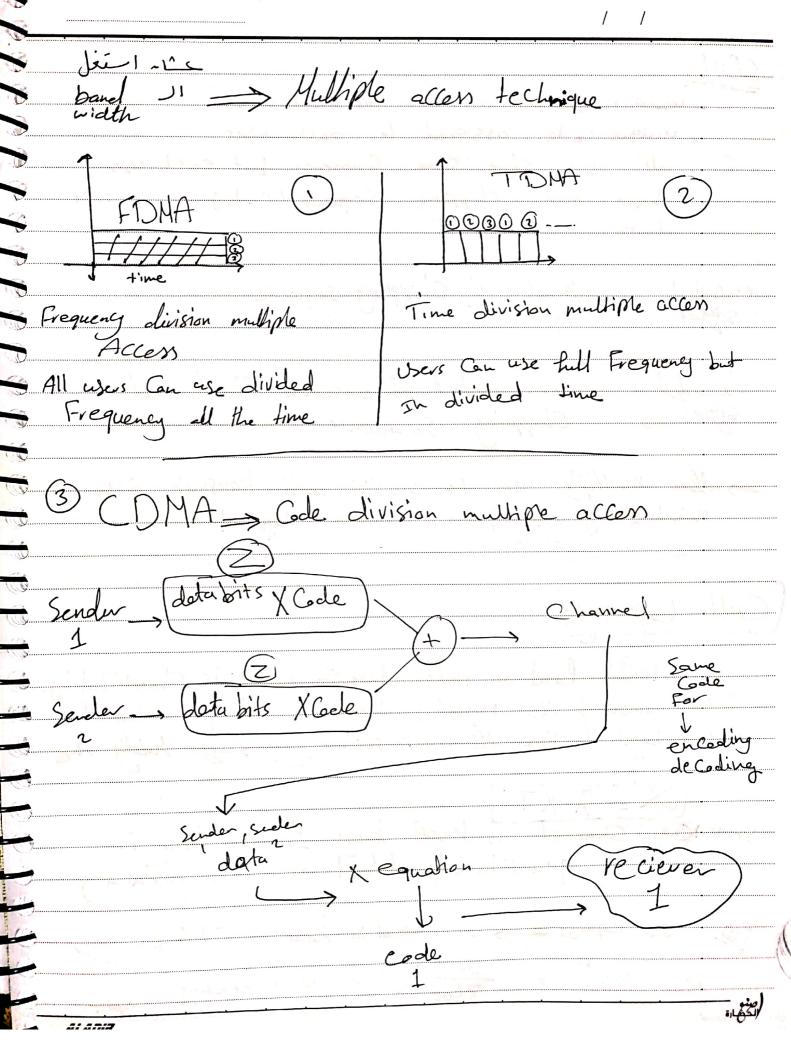
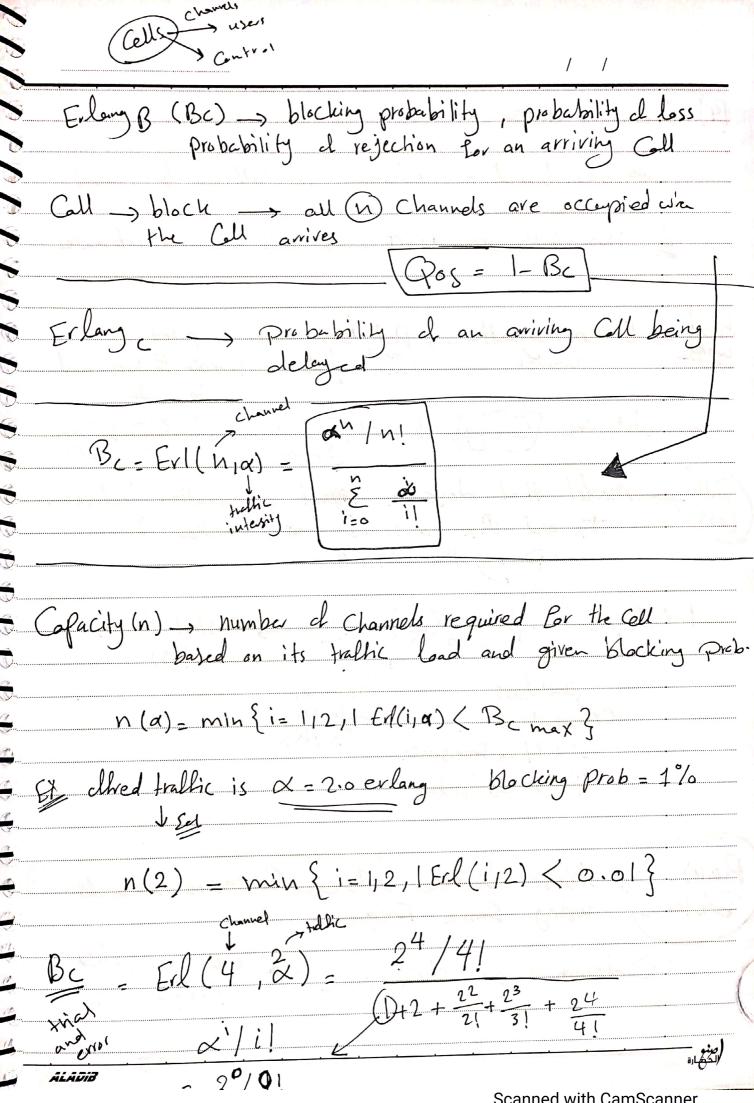
outlines . Frequely sys. infrashruetic Re use - cellular Lec 4 access technique . Multiple Coll Capacity Cell-, area Guerd by transimitting Station. Resestation Vaelius equal to reachable range - I transmitted signal each Cell Serve multiple mobile subscribers (MS) by Connecting them to single (BS) Shape ___ Circle ___ averlab X Square ___, No Guer X he Xayonel - large Region V 7 - triangle - less frequently used one area BSC wired MSC center Base Stellon DSTN PSTN mobile Base Cutvoller Station Subscriber public switched retwork ATM asynchronus transfer mode



COMA	21-1-101
used in Severall wireless broadCest Chan	the state of the s
unique Code assigned to each use	· ·
all uses Share Same Frequency but	
have own chipping Sequence (Cad	le) 10 enlade
encoded = original X Chipping sequele signal signal	0
signal signal	A SALA MANAGEMENT
	ignal and
de Caded = inner-product de en Caded Signel Chipping Sequence	19nd and
> allow multiple uses to coexist and to	ransmit with
-> allow multiple uses to coexist and to minimal interlace -> Code = orthogo.	
Cell Consitul	
Cell Capacify)	
traffic load or traffic intensity (X) is Cheactrized by.
(1) Avg. number of MS request service (7)	- avg. amival rate
trallic load or trallic intensity (2 (i) Avg. number of MS request service (7)— (i) Avg. leight of time MS request service (7)—	> arg holding the
	The state of the s
Carlona Channel is kept busy for a	un hour is
a uantite viely defined as	one (Erlang)
Serving Channel is kept busy lor of quantitaviely defined as	
ex 30 request Generated in hour	T-360 Sec
$\alpha = \lambda XT = \frac{30}{3600} \times 360 = 3$	Erlang
3600	

ALADIB



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[4] Frequency reuse Frequency band or channel in Cell can be reased in other Cell
in other Cell
if there Cells are a part will be no inference 1 Real => Electro magnetic -> Path loss are Computed from world waves link budgets terrain lentures and antenadala this determine Coverage of each base and interace between Steion and interace between Path, model that describe signal attenuation between loss to and Rx antenas as hunction of Probagation distance L(dB) = 10 Nog (d) + C - Constat Par sys.

Puthloss distale
exponent Detween

TX , RX

2: 4 - Free space 4:6 > Indoor Reuse Closest distance between Centeral 2 Cells Distance using same Frequency Determined by clustersize Frequency band

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