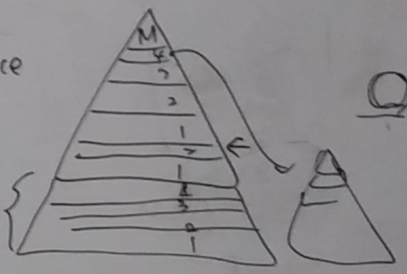
160304木a

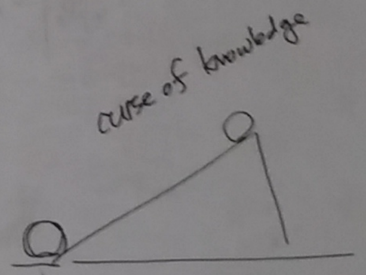
CM#1

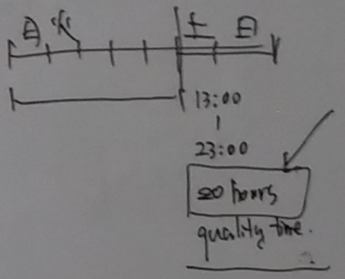
- Flipped Learning
  거꾸로 학습.
  MATLAB flipud
  fliplr
- Flipped Course
  火 木
  수업 자습 수업 자습 ....
  수업 자습
- Course materials.
  - Note
  - textbook
  - lecture video
- ST
  - 1-4
  - 5-8
  - 9-15 ← Inf. Theory
  - 英語

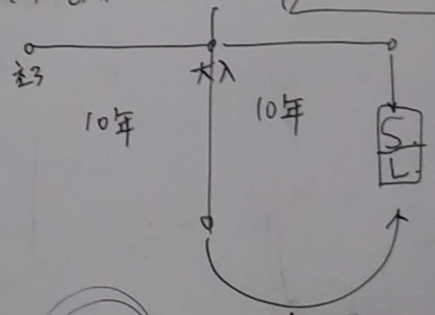
- 3/10/木 No class. 3/7/日 make-up
  11:00-11:45.

- 대학원
  Master & Apprentice
  장인 (스승) 도제 (제자)
  /ex/ 중세 제빵업자









1995-2001.
98

성장 vs. 성적. 학위.
실력
英語

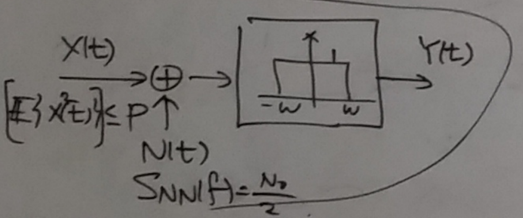
/ex/ 기지국장비
#1. Huawei
#2. Ericsson
#3. Nokia+Lucent
#4. S. → SKT, KT, LGU+.

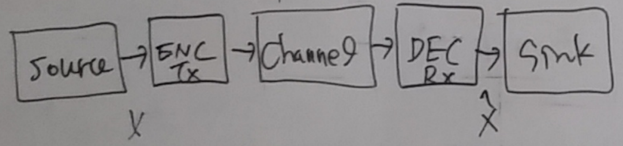
160304木b

CM#1

EECE646 Intro. to Space-Time Comm.

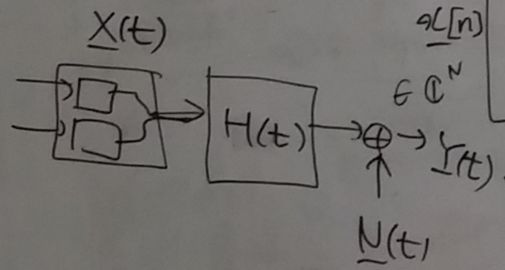
Electrical

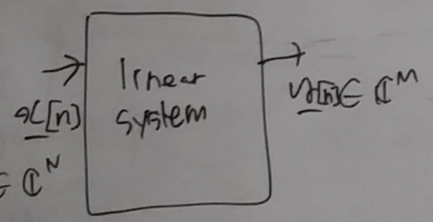




$C = W\log(1+\frac{P}{N_0 W})$ [bps].

· Channel





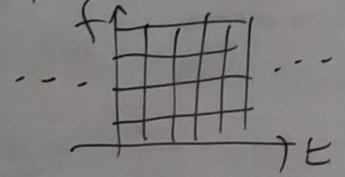
$A \in \mathbb{C}^{M\times N}$

$y[n] = A\,x[n]$

"Time" T(F)

"Space & Time" ST(F)

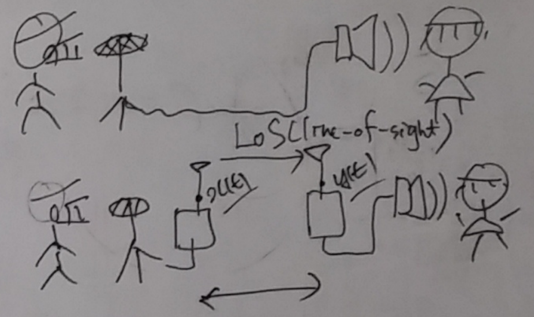
/ex/ OFDM



· "Space"

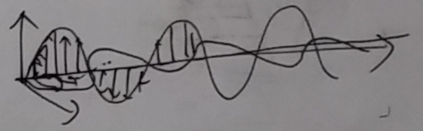
Wired

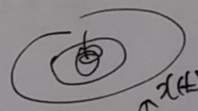
Wireless



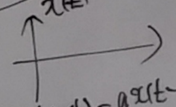
전파 radio wave 3kHz - 300GHz

전자기파 electromagnetic wave





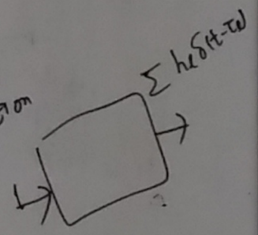
If "free space" RF.

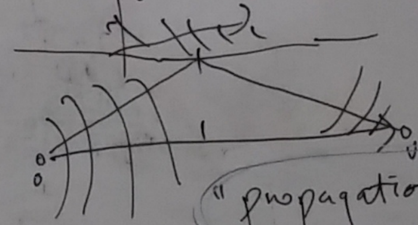


$y(t) = a\,x(t-\Delta)$

wave ≡ superposition

$h(t) =$





$y(t) = a_1 x(t-\Delta_1) + a_2 x(t-\Delta_2)$

· NLOS

"propagation channel"

"radio channel"