1. $\chi \sim N(M, \sigma) \rightarrow \chi = M + \sigma \cdot randn$

109-normal: 1095 is in normal distribution
dbv pow(.)

2. Sqrt(=1). (randn + 11. nandn)

3. h= /k h + /1+k h

Ricean factor KER++
how much energy is in Los path

I'm distribution:

k=0. Rayleigh

1 k→∞: Rice

4. 1: 1. 1/12 ~ Exp (==)

5. AWGN channel: Tx → P→Rx

y=x+n

foding channel: Tx → B→B→Rx

y=hx+n

Channel roise

BPSK:

OPSK:

W1. encode / rate BER

hoise > Rx

MRT us Alamouri: normalize we

diversity. information symbols pass through multiple independent fading chownels.

- () repetition cooling: same symbol over several paths
 · max diversity gain
 · mo cooling gain
- (2) Alamonti

array gain - SNR.
Niversity gain - It independent feeling parts
untiplexing gain - (Sum) rate
Coding gain - ix power (to advise some produce distance)

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