large-scale fadiup SUB ~ N(0.0°)
(shadant) =10lop.os M: 7=10(09:03 NN(0,05))

Colculate 9=10 To m shadowy

realisation hultiple for i 21:/oro reclisation X = vancy (o, os); ef Si3:/oto; Shadny end P(otis) Js = 8 4B

EXU: h: ~ CN(0,1) real imag hi: hreat + ihimay CN(0.1) N(0.47 = N(0.1) M 100 i=1:10000 hr= Moi) ~ Zx randn h1: ~10,1) h= hz + ihz norm[i]: 965(h) square a65. [17 = norm(h) erd 766 (asons 76t (994 sno GGs)

NLOS.
Royleigh O Exi 1~(NO.1) 7x Xxx Q EVS h=hcosthreyenga TV Ricean

TV RX h= (K+1h +) 1+Kh everpy

K: how much is in LOS

Riceon faceur 7x x x x x k-0 => h=h (Ray(evsh) $K \rightarrow \infty = \lambda + \lambda = e^{j\phi}$ - (auge dix K hR= NCO.1 hz = N(0.1) TichR+ihz -> h = e10 = 1 h= KERh + KARA horm[i]=abs(h) Plot(uova) correlated uncorrelated

EX4: n couplex normal RV X1. X2.. Xu => Y= (X,12+1X12+..+1Xn/2 h=1=XXi coarg (RV) h=3 Q-X ルニろ for 1=1:100 hp= N(0:1) hi= NIV.1) hi-hr+ih1 hr = /R + i/2

sam-wom-h[i]= C65(hi) 2+ C65(hi) 2 plot (sum-non-h7 for i:1:100 for i:1:100 h=hp+jhz sum nom. hZi] = sum-nom[i-1] + a631h1^2 Exs: BPSK

BPSK TX -> MM -> (RX)

BPSK TX -> (PX)

BPSK 1 -- 1 -- 1

Power = 1512

110100 -> < 1.1.-1.1.-1.-1)

BRSK with poner P => 5 ymbols

P=1013=>10=> 3..

P=208=>10=> 3..

17x -> (7x) generale 1000 random bits r=5-16)~(v(0.1) -10) -10 = 75 0-)(-1)-)-Mp bie {0.17 1-> Sie 3-17. 17 70 > 1 < Re 44; } < Y:= Sith < (0-70)