April 25th 2024 Rough Hary groper Habiran Titter Lury Mosa
The Kalman Liller squaferer we. System model:  $\chi_{k} = \phi_{k-1} \chi_{k-1} + w_{k+1}$ Measurement :  $\chi_{k} = \psi_{k-1} \chi_{k-1} + w_{k+1}$ Ix. State of the system Mg-1 H natrix which from storms the system. Wx noise in the system mudel 20 Measurement HK: transforms the system state ento the mosume VK: mees woment noise. Storte extrapolation. P(xC) = Dx-1 Xx-1(+) State estimate update: 2 KCH) = 2 KC) + KK [ZK-HK2KC)] (8) From covariance extrapolation.

Pac-) = Dk-1 Pk-1(+) Dk-1 + Qk-1

terror covariance applate.

PK(+) = LI-KatkJPk(-). Kalmani grun mafrix KK = PKC) HK [HKPKG) HK + RK]-1