Parameter estimation wednested bine unid Stocker Consider a random sample (X, 2 x2 x3 - - Xn) 11=0, (mean) n2=0, (variance) soll. willelihood  $f^{m}(CO_{1},O_{2}) = TT 1 e 202$ 60 max log . 1) 9 . 10 11 5(8)  $\ln L(0_1, 0_2) = \frac{\pi}{2} \left[ -\frac{1}{2} \ln(2\pi 0_2) - (2\pi 0_1)^2 + \frac{1}{2} 20_2 \right]$  $\frac{1}{d \ln L(0_{11}0_{1})} = \frac{2}{202}$   $\frac{1}{d \ln L(0_{11}0_{1})} = \frac{2}{2} \frac{2i - 0_{1}}{20} = 0$   $\frac{1}{202} \frac{1}{202} \frac{1}{2$  $\frac{3R-N\cdot\chi_{i}-m0|_{2}0}{0.12\sqrt{2}}\frac{2}{2}\frac{2}{2}\frac{1}{2}\frac{1}{2}$ mean  $\frac{3}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$ den L(01,02) = \(\frac{2}{20}\) \(\frac{1}{20}\) \(\frac{ dor 202 2022 i21 (2-1) 2 (2-1) 0220511(5-1(21-01)) (8-1) G variance vix & = ; x & 0 18 2 XC

