Ex. 3.19 Bridge = (XTX + XI) XTY Now using SVD of X e.g. X = UDVT We Bridge = (VOUTUDVT + 2VVT) VDUTY = (VD2VT+2VVT) VDuy = (V(D2+2)VT)-1 VDUTY and using VTV = II and V = V-1 = V (D2+2) Duty = \( \frac{d\_1}{d\_1^2 + \chi} \) UT Y and clearly as 2+0, the absolute Value of this equation | | \rightarrow ringe| increases