12 Structure X'X I XTX has lincor dependence between columns, and therefor annot be inverted. This can also be seen from Determinant of XTX In R: def (xtx) 1 Least Squares: MinimiseSSQR = (y-Xb)(y-Xb) Result of minimization are Least Squares Normal Equalities (XTX) b = XTy , where XTX cannot be inverted brokad of voing the non-existent in verse of (XX),
we can use a "generalized" inverse (XX) of

(XXX). Then a solution b" can be computed as 60 (XTX) XTY