Model Assumptions: (must be specified for mixed model) · Expected values I vector u of breedily values, olefined as deviations => Elu) = 0 = E(u) = (8) Ir veelor e of residuals elefihed as okrahas = \cap $E(e) = \emptyset$ = D E(4) = E[XP+Zu+e] $= E(X\beta) + E(Z\mu) + E(e)$ $= X\beta + Z \cdot E(u) \quad \emptyset$ · Abbrevialbe - XB Ely] = [XB] · Variance: var(y) = G; var(e) = R; var(y)=V
when Gand R are known variance - covariance matrices.

(u,e') =0