CHAPTER 5

Multiple Regression Analysis: **OLS Asymptotics**

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MLRI linearity in B $E(\hat{\beta};)=\beta;$ MLR3. Var(xj) =0 and No Perfect Collinearity MLR4. E(u|x) = 0MLR5. $Var(u|x) = \delta^2$ linear Model Assumption MLR6. USX; are indep + u~N(0, 2) We know the exact dist of Bi Tody, Rebring

t-distributi

$$E(\hat{\beta}_{j}) = \hat{\beta}_{j}$$

$$Var(\hat{\beta}_{j}) = \sqrt{2}$$

and (2) Deleting MLR6 is

(3) MIRI-MIRA': Consistency