复习:古典假定、基本假定 人惠的值 E(ui) = 0 E(U)=0 2. 无自相关 Cov(ui,uk) = E [ui-E(ui)] - E [uk-E(uk)] 3. 国方差 Var (U) = E [(U-EU)(U-EU)] $= E(UU') = 6^2 In.$ 4. 强机干扰顶与解释重量不相关 Cov(Xjī, uī)=0

S. 天为重发 (X)=k Rank(X)=k (X'X) 13te 6-32019 Ui ~ N(0, 62)

材理设施
$$SF(\hat{e}_{j}) = GJ\hat{e}_{j}$$

$$e = Y - \hat{Y} = Y - X\hat{e}$$

$$e = e'e$$
无偏的计
$$\hat{G} = \frac{S'e\hat{i}}{n-k}$$

$$Jar(\hat{e}_{z}) = \hat{G}'\hat{e}_{j} = (\frac{S'e\hat{i}}{n-k})Gj$$

JWSTRE PESS + RSS

$$\Sigma(Y, -Y)^2 = \Sigma(Y, -Y)^2 + \Sigma(Y, -Y)^2$$

$$R^2 = \frac{ESS}{TSS} = I - \frac{RSS}{TSS} \Rightarrow I - \frac{\Sigma e^2}{\Sigma(Y, -Y)^2}$$

$$\frac{3}{5}E$$

$$TSS = \sum (Y, -Y)^2 = \sum Y_1^2 - nY = Y_1^2 - nY^2$$

$$ESS = \frac{2}{5}X_1^2 - nY^2$$

$$\frac{2}{5}X_1^2 - nY^2$$

$$\frac{2}{5}$$

$$\frac{1}{1} \frac{1}{2} \frac{1$$

艺。美好 $Y = \beta \times + U$ $Y = \beta \times + \beta \times + \beta \times + \beta \times + \cdots + \beta \times + \cdots$

3.
$$F = \frac{ESS/(k-1)}{PSS/(n-k)} = \frac{377067 \cdot 19/2}{470895 \cdot 00/17}$$

3. 4. $A = \frac{R^2}{R^2} = L(LR) \frac{n+1}{n-k} = L(L 0.994202) \times \frac{38}{35} = 0$
 $I = \frac{RSS}{(n-k)}$
 $I = \frac{R^2}{n-1} = \frac{R^2}{1-R^2}$

