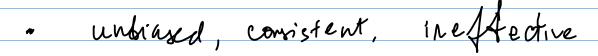
Hetnoscedusticity



. Test: 60, White tests

· Remove: WLS, Robust s.e. (White s.e.)

White: $Se(\hat{g}_2) = \sqrt{\frac{1}{h}} \frac{\sum (k_1 - \hat{x})^2 \cdot \hat{e}_1^2}{\sqrt{n_2(x)^2}}$

Models with stockastic regressors

Assumptions of Model with stochastic regr.

Model :> likeur and correctly specified

$$\gamma_i = \beta_1 + \beta_2 n_i + q_i$$

Col.2
$$E(q_{i}|X_{1}) = 0 = 0$$
 $Cov(q_{i},X_{i}) = 0$

$$Cov(q_{i},X_{i}) = E(q_{i}|X_{i}) - E(q_{i})E(x_{i})$$

$$E(q_{i}|X_{i}) = E(E(q_{i}|X_{i}|X_{i})) = 0$$

$$E(q_{i}|X_{i}) = 0$$

Cor(x, E) = 0 => X - endogenous regressor

& ndugeneity

1. Unitted vaniable

$$\beta_{3} > 0$$
, $cov(x_{i}, w_{i}) > 0 =)$ β_{2}

is inconsistent

and biased upwards

Dz. Model with measure ment errors (1) 7; = p, + \ 2xi X; = X; + & cor (xit, e;) = 0 $\Im i = \beta_1 + \beta_2 \cdot \mathcal{H}_i + \alpha_1$ (1) 7:= B, + Bz (X; - Qi) - B+ Bz X; - Bz. G; V $U_i = -\beta_z \cdot \varepsilon_i$ $\beta_{2} + \frac{Cov(k_{1}^{*} + \epsilon_{1} - \beta_{2} \epsilon_{r})}{Von(k_{1})} =$ $\beta 2 - \beta 2 \frac{\text{Var}(\mathcal{E}_{i})}{\text{Var}(\mathcal{X}_{i}^{*}) + \text{Var}(\mathcal{E}_{i})} =$ Von (xi) B2 (xi) + Van(xi)

 $Von(x_i^*)$ (/a(xi) + Van(Ei) regondless of sign of Br B, is inconsistent and liasea towards zero