Imb. Dua orgener MHK nosopousur-ermob Bo u B1 yprabnemus perpeccesse Y=B0+B1X1+E. npu bornereresum yaeobeni TIM: $Var(B_1) = \frac{\delta_{\varepsilon}^2}{\sum_{i=1}^{k} x_i}, Var(B_0) = \delta_{\varepsilon}^2 \frac{\sum_{i=1}^{k} x_i^2}{h \sum_{i=1}^{k} x_i^2} = \delta_{\varepsilon}^2 \left(\frac{1}{h} + \frac{X^2}{\sum_{i=1}^{k} x_i^2}\right)$ $COV(\hat{\mathcal{B}}_i, \hat{\mathcal{B}}_i) = -\frac{X \cdot \hat{\mathcal{E}}_i^2}{Z_i^2}$, $rge \propto_i - X_i - X_i, y_i - Y_i - Y_i$ $\Delta \hat{\beta}_{1} = \frac{\sum_{i=1}^{n} \chi_{i} y_{i}}{\sum_{i=1}^{n} \chi_{i}^{2} y_{i}} = \sum_{i=1}^{n} \frac{\chi_{i}}{\sum_{i=1}^{n} \chi_{i}^{2}} y_{i} = \sum_{i=1}^{n} \omega_{i} y_{i}^{2} =$ $+ B_1 = (o_i \times i) + \sum_{i=1}^{n} (o_i \times i) + \sum_{i=1}^$

 $Var(B_1) = \sum_{i=1}^{n} \omega_i^2 \cdot \delta_{\varepsilon}^2 - \frac{\delta_{\varepsilon}^2}{2x_i^2}$

Bo= y-B, X= f & Y, - & w. (Y, - y). X= & G-w. X/Y, +XY = \(\frac{1}{h} - \con \times) \cdot \chi_i => vour (Bo) = = (1/2-2. floix+100 X). 62= $= \delta_{\varepsilon}^{2} \left(\frac{1}{h} - \frac{2}{h} \cdot \overline{X} \stackrel{2}{\lesssim} u_{i} + \overline{X} \stackrel{2}{\lesssim} u_{i}^{2} - 1 \right) = \delta_{\varepsilon}^{2} \left(\frac{1}{h} + \frac{\overline{X}^{2}}{5 \times i^{2}} \right) =$ $= \delta_{\varepsilon}^{2} \left(\frac{1}{h} - \frac{2}{h} \cdot \overline{X} \stackrel{2}{\lesssim} u_{i} + \overline{X} \stackrel{2}{\lesssim} u_{i}^{2} + \overline{X} \stackrel{2}{\lesssim} u_{i}^{2} \right) =$ $= \delta_{\varepsilon}^{2} \frac{2}{h} \frac{2}{1 \times i^{2}} \frac{2}{h} \frac{2}{h} \frac{2}{1 \times i^{2}} \frac{2}{h} \frac{2}$ -cov(Bo, Ba)-? 7=Bo+B,X; var(y)= f. 622 Var (Bo+B1X)=Var(B0)+2Xcov(Bo,B1)+X2var(B1) $\frac{1}{h} \frac{6}{6} = \frac{2}{6} = \frac{2}{h} \frac{1}{h} + \frac{x^2}{5} + 2x^2 + 2x \cos(3\theta_0, 3) + x^2 \frac{6e^2}{5} = 0$ $COV(\hat{\mathcal{B}}_0, \hat{\mathcal{B}}_1) = -\frac{\overline{X} \cdot \hat{\mathcal{S}}_{\varepsilon}^2}{\frac{2}{2} \chi_c^2}$

Imb. 2 Thu boinourerum yandem TM OYENKU BOMUBINHA SCURROMER BEST, M. C. инегот нашиенымую днепершю в киссе всех ингитога песиниянных оценок. > Tyemo B1 = \$ Toi Yi - gpyran realleuserran OGERKA, M. e. E(B,)=B,=> E(B,)= & CO. E(Yi)= = \(\(\ou \cor \(\mathbb{E}_0 + \mathbb{B}_1 \times_i + \varepsilon_i \) = \(\mathbb{E}_0 \leq \ou \ou \cor \varepsilon_i + \varepsilon_i \rightarrow \ou \ou \ou \cor \varepsilon_i = \varepsilon_j \) (1) \$ (0; =0; (2) \$ (0; X; =1, m. e. relotxogrum permum zagary: Var(Bi)=Ge & Wi -> min npu orpourerusex. (1) u (2). 12 00 = \$ (00 - 401) $\frac{2}{2}(\hat{\omega}_{i} - \omega_{i}) \omega_{i} = \frac{2}{2}(\hat{\omega}_{i}) \omega_{i} - \frac{2}{2}(\hat{\omega}_{i}) = \frac{2}{2}(\hat{\omega}_{i}) \frac{(x_{i} - \hat{x})}{2x_{i}^{2}} - \frac{2}{2}(\hat{\omega}_{i})^{2} = \frac{2}{2}(\hat{\omega}_{i}) \frac{(x_{i} - \hat{x})}{2x_{i}^{2}} - \frac{2}{2}(\hat{\omega}_{i})^{2} = \frac{2}{2}(\hat{\omega}_{i}) \frac{(x_{i} - \hat{x})}{2x_{i}^{2}} - \frac{2}{2}(\hat{\omega}_{i})^{2} = \frac{2}{2}(\hat{\omega}_{i})^{2} - \frac{2}{2}(\hat{\omega}_{i})^{2} = \frac{2}{2}(\hat{\omega}_{i})^{2} - \frac{2}{2}(\hat{\omega}_{i})^{2} = 0$ => $\frac{5}{2} \widehat{\omega}_{i}^{2} = \frac{5}{2} \widehat{\omega}_{i} - \widehat{\omega}_{i}^{2} + \frac{1}{5} \widehat{\chi}_{j}^{2}$ -> $\frac{5}{2} \widehat{\omega}_{i}^{2}$ gormunoiem mureumpus npu To: = Wi, m.e. gud oyerer MHK. D Dua Bo go-bo anamourno.