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where we use the fact that $\sum_{i=1}^k (z_i - \overline{z}) = 0$ always. Now x_i , is a function of the z_i and x_i and the expected value of each u_i is zero conditional on all z_i and x_i in the sample. Therefore, conditional on these values.

$$\mathbf{E}(\vec{\beta}_i) = \beta_i + \sum_{i=1}^n (z_i - \overline{z}) \mathbf{E}(u_i) \\ s_{i_2} = \beta_i$$

$$\begin{split} Var(\vec{\beta_i}) &= Var\bigg[\sum_{i=1}^{n}(z_i - \overline{z})u_i\bigg] = \sum_{i=1}^{n}(z_i - \overline{z})^2 Var(u_i) \\ &= \sigma^2 \frac{\vec{x}_{i,1}^2}{\vec{x}_{i,2}^2} - \overline{\vec{x}_{i,2}^2} \end{split}$$

(iii) We know that $\operatorname{Var}(\hat{\beta}) = \hat{\sigma}^2 \prod_{i=1}^{n} (x_i - T_i^2)^i$. Now we can rearrange the inequality in the hint, drop T from the sample covariance, and cancel n^i everywhere, to get $\sum_i (x_i - T_i^2)^i y_i z_i^2 \ge 14 \sum_{i=1}^{n} (x_i - T_i^2)^i$. When we multiply through by σ^i we get $\operatorname{Var}(\hat{\beta}_i) \ge \operatorname{Var}(\hat{\beta}_i) = 1 + \frac{1}{n} \sum_{i=1}^{n} (x_i - T_i^2)^i y_i z_i^2 \ge 14 \sum_{i=1}^{n} (x_i - T_i^2)^i y_i^2 \ge 14$

(ii) Yes, there is a positive moderate correlation between years and rhisyr. $VIF_{from} = \frac{1}{1-8F_{puter}^2} = \frac{1}{1-6597} = 2.48139; \text{ from this value, we can say that there is little collinearity}$

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