Basic formula for calculation of the standard error:

$$\hat{u} = \frac{1}{\hat{Z}}\left(Y - \frac{\hat{Y}}{\hat{Z}} \cdot Z\right)$$

If we assume that nh $\geq$ 2 for all h, that is, two or more PSUs are selected from each stratum, then the variance of $\hat{\theta}$ *can be estimated from the variation among the estimated PSU totals of the variable u ("ultimate cluster" method):*

$$\hat{V}\left(\hat{\theta}\right) = \sum_{h=1}^{H}\left(1 - \frac{n_h}{N_h}\right)\frac{n_h}{n_h - 1}\sum_{i=1}^{n_h}\left(\omega_{hi} \cdot u_{hi} - \frac{1}{n_h}\left(\sum_{i=1}^{n_h}\omega_{hi} \cdot u_{hi}\right)\right)^2$$