

There is an error in (4.14) on page 115.

What follows is a replacement for the section of text beginning with

“Making the appropriate substitutions ...

to the end of that paragraph, 7 lines down ...

Chow statistics in Equation (4.9)”

Replacement text:

The relevant terms in (3.38) are now $\mathbf{R} = [\mathbf{0} \quad \mathbf{I}_{n_2}]$, $\mathbf{b}' = [\mathbf{b}_1 \quad \mathbf{d}']$, $\mathbf{r} = \mathbf{0}$, giving $(\mathbf{R}\mathbf{b} - \mathbf{r}) = \mathbf{d}$. Also $q = n_2$, and as shown above $\mathbf{e}_2 = \mathbf{0}$. Thus $\mathbf{e}'\mathbf{e} = \mathbf{e}'_1\mathbf{e}_1$. The degrees of freedom attached to \mathbf{e}_1 are $n_1 - k$, obtained from $n_1 + n_2$ observations less than $k + n_2$ estimated parameters. Making these substitutions in Equation (3.38) gives

$$F = \frac{\mathbf{d}'[\mathbf{I}_{n_2} + \mathbf{X}_2(\mathbf{X}'_1\mathbf{X}_1)^{-1}\mathbf{X}'_2]^{-1}\mathbf{d}}{\frac{n_2}{\frac{\mathbf{e}'_1\mathbf{e}_1}{(n_1-k)}}} \sim F(n_2, N_1 - k) \quad (4.14)$$

which is simply a replication of the Chow test statistic in (4.9). Econometric software packages provide simple procedures for testing the joint significance of a subset of variables. Thus the Chow test can be implemented by running the augmented regression (4.13) and testing the joint significance of the last n_2 variables.