

**Page 98, equation (3.110)**

Substituting from (3.68) and (3.23) into (3.108) we get:

$$\int_{\mathcal{V}} \rho \dot{s} \, dv \geq - \int_{\mathcal{V}} \operatorname{div}(\mathbf{q}/T) \, dv + \int_{\mathcal{V}} (Q/T) \, dv. \quad (1)$$

Eq. (1) can be rewritten as follows:

$$\begin{aligned} \int_{\mathcal{V}} \rho \dot{s} \, dv + \int_{\mathcal{V}} \operatorname{div}(\mathbf{q}/T) \, dv - \int_{\mathcal{V}} (Q/T) \, dv &= \int_{\mathcal{V}} [\rho \dot{s} + \operatorname{div}(\mathbf{q}/T) - Q/T] \, dv \\ &= \int_{\mathcal{V}} \sigma \, dv \geq 0 \end{aligned} \quad (2)$$

where definition (3.109) was used in the last identity. Eq. (2) is equation (3.110).