ERRATA

Variational and Extremum Properties of Homogeneous Chemical Kinetics. I. Lagrangian- and Hamiltonian-Like Formulations

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p. 165 Eq. (44) on page 165 should read

$$\mathcal{F} = \tau^{-1}[I(\mathbf{n}) : \mathbf{r}\mathbf{r} + I(\mathbf{n}^{\text{ex}}) : \dot{\mathbf{n}}^{\text{ex}}\dot{\mathbf{n}}^{\text{ex}}] = R(\mathbf{n}) : \mathbf{r}\mathbf{r} + R(\mathbf{n}^{\text{ex}}) : \dot{\mathbf{n}}^{\text{ex}}\dot{\mathbf{n}}^{\text{ex}}$$

p. 165 The sentence immediately following eq. (44) is incorrect and should be omitted.

p. 175 Eq. (87) on page 175 should read

$$\begin{aligned} \frac{dH}{dt} - \frac{\partial H}{\partial t} &= \frac{\partial H}{\partial \mathbf{q}^T} \dot{\mathbf{q}} + \frac{\partial H}{\partial \phi^T} \dot{\phi} + \frac{\partial H}{\partial \mathbf{r}^T} \dot{\mathbf{r}} = - \left(\dot{\phi} + \frac{\phi}{\tau} \right)^T \mathbf{C} \dot{\mathbf{q}} + \dot{\mathbf{q}}^T \mathbf{C}^T \dot{\phi} \\ &= - \frac{\phi^T \mathbf{C} \dot{\mathbf{q}}}{\tau} = - \frac{\phi^T}{\tau} \frac{\partial H}{\partial \phi} = - \frac{H + L}{\tau} = - \frac{H + T^* + T^{*\text{ex}} - G + G^{\text{ex}}}{\tau} \\ &= - \frac{(T + T^*) + (T^{\text{ex}} + T^{*\text{ex}})}{\tau} = - \frac{(T + T^*)^{\text{tot}}}{\tau} \leq 0. \end{aligned}$$