

Erratum

G. Vertogen, The Equations of Motion for Nematics, Z. Naturforsch. **38a**, 1273 [1983].

The equations of motion (1.9) must read

$$\frac{d}{dt} \left(\frac{\partial T}{\partial \dot{\theta}} \right) - \frac{\partial T}{\partial \theta} = - \frac{\partial D}{\partial \theta} - F_{el,\theta}, \quad \frac{d}{dt} \left(\frac{dT}{d\dot{\phi}} \right) = - \frac{\partial D}{\partial \dot{\phi}} - F_{el,\phi},$$

where $\frac{\partial D}{\partial \dot{\theta}}$ and $\frac{\partial D}{\partial \dot{\phi}}$ are generalized frictional forces, whereas $F_{el,\theta}$ and $F_{el,\phi}$ are generalized elastic forces given by

$$F_{el,\theta} = \frac{\partial F_{el}}{\partial \theta} - \partial_x \frac{\partial F_{el}}{\partial \partial_x \theta}, \quad F_{el,\phi} = \frac{\partial F_{el}}{\partial \phi} - \partial_x \frac{\partial F_{el}}{\partial \partial_x \phi},$$

with F_{el} denoting the Frank distortion free energy density.