

Physics 5306, GR5 Solutions

③ We know $T = \frac{1}{2} \vec{\omega} \cdot \vec{L} = \frac{1}{2} \vec{\omega} \cdot \vec{I} \cdot \vec{\omega}$

$$\frac{dT}{dt} = \frac{1}{2} \frac{d(\vec{\omega} \cdot \vec{L})}{dt} = \frac{1}{2} \frac{d\vec{\omega}}{dt} \cdot \vec{L} + \frac{1}{2} \vec{\omega} \cdot \frac{d\vec{L}}{dt}$$

Torque

$$\vec{N} \equiv \frac{d\vec{L}}{dt}$$

$$\frac{dT}{dt} = \frac{1}{2} \vec{\omega} \cdot \vec{N} + \frac{1}{2} \frac{d\vec{\omega}}{dt} \cdot \vec{L}$$

Note: In principal axes system-

$$\vec{\omega} = \omega_1 \hat{e}_1 + \omega_2 \hat{e}_2 + \omega_3 \hat{e}_3$$

$$\vec{L} = I_1 \omega_1 \hat{e}_1 + I_2 \omega_2 \hat{e}_2 + I_3 \omega_3 \hat{e}_3$$

$$\frac{d\vec{L}}{dt} = \frac{d\omega_1}{dt} \hat{e}_1 + \frac{d\omega_2}{dt} \hat{e}_2 + \frac{d\omega_3}{dt} \hat{e}_3$$

$$\frac{d\vec{\omega}}{dt} \cdot \vec{L} = I_1 \omega_1 \frac{d\omega_1}{dt} + I_2 \omega_2 \frac{d\omega_2}{dt} + I_3 \omega_3 \frac{d\omega_3}{dt}$$

$$\equiv \frac{d\vec{L}}{dt} \cdot \vec{\omega} = \vec{N} \cdot \vec{\omega}$$

$$\Rightarrow \frac{dT}{dt} = \frac{1}{2} \vec{\omega} \cdot \vec{N} + \frac{1}{2} \vec{\omega} \cdot \vec{N} = \boxed{\vec{N} \cdot \vec{\omega} = \frac{dT}{dt}}$$

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Michael S. Waterman



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