

(a) Recall product rules

$$\frac{d}{dt} (\vec{a} \cdot \vec{b}) = \frac{d\vec{a}}{dt} \cdot \vec{b} + \vec{a} \cdot \frac{d\vec{b}}{dt}$$

$$\frac{d}{dt} (\vec{a} \times \vec{b}) = \frac{d\vec{a}}{dt} \times \vec{b} + \vec{a} \times \frac{d\vec{b}}{dt}$$

then

$$\frac{d}{dt} [\vec{a} \cdot \vec{b} \times \vec{c}] = \frac{d}{dt} (\vec{a} \cdot \vec{b} \times \vec{c})$$

$$= \frac{d\vec{a}}{dt} \cdot (\vec{b} \times \vec{c}) + \vec{a} \cdot \frac{d}{dt} (\vec{b} \times \vec{c})$$

$$= \frac{d\vec{a}}{dt} \cdot (\vec{b} \times \vec{c}) + \vec{a} \cdot \frac{d\vec{b}}{dt} \times \vec{c} + \vec{a} \cdot \vec{b} \times \frac{d\vec{c}}{dt}$$

$$= \left[ \frac{d\vec{a}}{dt} \cdot \vec{b} \times \vec{c} \right] + \left[ \vec{a} \cdot \frac{d\vec{b}}{dt} \times \vec{c} \right] + \left[ \vec{a} \cdot \vec{b} \times \frac{d\vec{c}}{dt} \right] \leftarrow \text{QED}$$

(b)  $\frac{d}{dt} \left[ \vec{a} \cdot \frac{d\vec{a}}{dt} \cdot \frac{d^2\vec{a}}{dt^2} \right]$

$$= \underbrace{\frac{d\vec{a}}{dt} \cdot \frac{d\vec{a}}{dt} \times \frac{d^2\vec{a}}{dt^2}}_{\substack{\downarrow \text{cyclic} \\ \text{permutation}}} + \vec{a} \cdot \underbrace{\frac{d^2\vec{a}}{dt^2} \times \frac{d^2\vec{a}}{dt^2}}_{=0} + \vec{a} \cdot \frac{d\vec{a}}{dt} \times \frac{d^3\vec{a}}{dt^3}$$

$$= \frac{d^2\vec{a}}{dt^2} \cdot \underbrace{\frac{d\vec{a}}{dt} \times \frac{d\vec{a}}{dt}}_{=0} + \vec{a} \cdot \frac{d\vec{a}}{dt} \times \frac{d^3\vec{a}}{dt^3}$$

$$= \left[ \vec{a} \cdot \frac{d\vec{a}}{dt} \times \frac{d^3\vec{a}}{dt^3} \right] \leftarrow \text{QED}$$

# Aerospace Engineering Mathematics

**Chao Zhang**



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