Spectral Analysis

Yohannes Tsehay

Johns Hopkins Medicine

07/20/2018



Overview

- Transversal acceleration
- Centripetal acceleration



Template

Coriolis acceleration \

$$ec{a}_p = ec{a}_o + rac{bd^2}{dt^2} ec{r} + 2ec{\omega}_{ib} imes rac{bd}{dt} ec{r} + rac{ec{lpha}_{ib} imes ec{r}}{dt} + rac{ec{lpha}_{ib} imes ec{r}}{dt} + ec{\omega}_{ib} imes (ec{\omega}_{ib} imes ec{r})$$





Template

Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^b d^2}{dt^2} \vec{r} + 2\vec{\omega}_{ib} \times \frac{{}^b d}{dt} \vec{r} + \vec{\alpha}_{ib} \times \vec{r} + \vec{\omega}_{ib} \times (\vec{\omega}_{ib} \times \vec{r})$$

Transversal acceleration



Template

Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^b d^2}{dt^2} \vec{r} + \frac{2\vec{\omega}_{ib} \times \frac{{}^b d}{dt} \vec{r}}{} + \frac{\vec{\omega}_{ib} \times \vec{r}}{} + \frac{\vec{\omega}_{ib} \times (\vec{\omega}_{ib} \times \vec{r})}{}$$

- Transversal acceleration
- Centripetal acceleration



