Rigid body dynamics

Coriolis acceleration

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

Rigid body dynamics

Coriolis acceleration

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

Transversal acceleration



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Rigid body dynamics

Coriolis acceleration

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

- Transversal acceleration
- Centripetal acceleration



Author