

Angular velocity of OA:

$$\omega = pk - j e_1 + \Sigma E_3$$

 $k = Sin \beta e_2 + Co \beta e_3$
 $E_3 = e_3$
 $\omega = -j e_1 + p sin \beta e_2 + (p Co j s + \Sigma) e_3 \leftarrow$
 $\alpha = (d\omega) + \Sigma \times \omega$
 $\alpha = (d\omega) \times \gamma z = (d\omega) + \Omega \times \omega$

$$x = -\pi p \sin \beta e_1 + \beta (p \cos \beta - \pi) e_2$$

$$-p \beta \sin \beta e_3$$