Axis angle representation $\begin{cases} \underline{K} = 0 \hat{K} \\ \lim_{N \to 0} K = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \end{cases}$ P= P1+ P2 Exot = PI + Bast $(6, k) \longrightarrow R(0, k)$ Rodrigues formula $\hat{\omega} = \hat{k} \times \hat{p}$ $\hat{\omega} = \hat{k} \times \hat{p}$ $= -\hat{k} \times (\hat{k} \times \hat{p})$ 11 pt 1 = 1 Kzmp Prot = | Proso P + | Prismo & || w| = |p| smo = $p_{\perp}\cos\theta + \omega \sin\theta$ = $-\hat{\kappa} \times (\hat{\kappa} \times \hat{p})\cos\theta + \hat{\kappa} \times p_{\perp} \sin\theta$ 1/12/1 = 11/11/1 axb= Lajxb $\begin{bmatrix} a \end{bmatrix}_{x}^{2} \begin{bmatrix} a_{x} \\ a_{y} \\ a_{z} \end{bmatrix} = \begin{bmatrix} 0 & -a_{z} & a_{y} \\ a_{z} & 0 & -a_{x} \\ -a_{y} & a_{x} & 0 \end{bmatrix} \begin{bmatrix} b_{x} \\ b_{y} \\ b_{z} \end{bmatrix}$ 10x 07 021 21(0,02-02by)-d(0x62-02bx)+ k(0x6y-6x94) $p_{inot} = -\left[\frac{\hat{K}}{x}\right]_{x}\left[\frac{\hat{K}}{y}\right]_{x}e^{\cos\theta} + \left[\frac{\hat{K}}{x}\right]_{x}e^{\sin\theta}$ 1R/ =K $= -K^2 p \cos \theta + K p s m \theta$ h= b"+ b" = b-b" = b-(K5b) - b+K5b

 $P_{not} = P_{11} + P_{+not} = p + K^{2}p - K^{2}p \cos\theta + Kp \sin\theta$ $P_{not} = p + Kp \sin\theta + (i - \cos\theta)K^{2}p$ $= (T_{3+5} + K \sin\theta + (1 - \cos\theta)K^{2})P$

$$P_{flot} = R(0, \hat{k}) P \qquad R(0, \hat{k}) = I_{jet} K_{sim0} + (I-cos0) K_{seo}^2$$

$$K = \begin{cases} 0 & i_2 K_{i_1} \\ 0 & i_2 K_{i_2} \\ 0 & i_2 K_{i_2} \end{cases}$$

$$Retation \quad \text{matrix} \qquad \text{ouxis} \quad \text{-angle}$$

$$R = \begin{cases} n_{11} & n_{12} & n_{13} \\ n_{21} & n_{22} & n_{33} \end{cases} = \begin{cases} I+K \text{ sin } 0 & i(I-cos0) K^2 \\ I+K \text{ sin } 0 & i(I-cos0) K^2 \end{cases}$$

$$D = cos^{-1} \left(\frac{In(R)-1}{2} \right) \qquad In(M) = \begin{cases} m_{11} \\ m_{21} \\ m_{31} \end{cases}$$

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