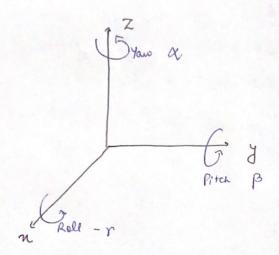
Vaw, Roll, Potch



$$R_{y}(\beta) = \begin{bmatrix} \cos \beta & 0 & \sin \beta \\ 0 & 1 & 0 \\ -\sin \beta & 0 & \cos \beta \end{bmatrix}$$

$$R_{\lambda}(y) = \begin{bmatrix} 1 & 0 & 0 \\ 0 & \cos y & -\sin y \\ 0 & \sin y & \cos y \end{bmatrix}$$

R(a, B, r): RW). RB). Rb):

cos a cos B cos a sin B sin 8- sin a cos o cos a sin B cos of + sin a sin or cosp sin 8

Sind sing sind + cora wood sind sing cost - cora sind cos B cos 8

For an arbitrary metrix such as ;

$$\begin{bmatrix} g_{11} & g_{12} & g_{23} \\ g_{21} & g_{21} & g_{23} \\ g_{31} & g_{32} & g_{53} \end{bmatrix}$$

Sobring for each angle yields:

$$\alpha = \tan^{-1} \left(\frac{\delta_{21}}{\delta_{31}} \right)$$

$$\beta = \tan^{-1} \left(\frac{\delta_{21}}{\delta_{32}} + \frac{\delta_{33}}{\delta_{33}} \right)$$

Sina, it will all lie blw [0,217] be of arctangents: