二维 围绕胶上投转推导(顺助针)

$$A: \{x, y\} = \}A': \{x', y'\}$$

$$\Rightarrow \int X' = Y(\cos \alpha \cos \theta + \sin \theta \sin \alpha)$$

$$Y' = Y(\sin \alpha \cos \theta - \cos \alpha \sin \theta)$$

$$\Rightarrow \begin{cases} X' = \cos\theta \cdot X + y \cdot \sin\theta \\ y' = -X' \cdot \sin\theta + y \cdot \cos\theta \end{cases}$$

$$\Rightarrow \begin{pmatrix} \cos\theta & \sin\theta \\ -\sin\theta & \cos\theta \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} x' \\ y' \end{pmatrix}$$