

$$\begin{aligned} \mathbf{x}' &= \hat{\mathbf{r}}(\hat{\mathbf{r}} \cdot \mathbf{x}) \\ &+ \sin(\theta)(\hat{\mathbf{r}} \times \mathbf{x}) \\ &- \cos(\theta)(\hat{\mathbf{r}} \times (\hat{\mathbf{r}} \times \mathbf{x})) \end{aligned}$$