

$$e^{(\hat{\mathbf{r}} \times) \theta} = (\hat{\mathbf{r}} \times) \left(\frac{\theta}{1!} - \frac{\theta^3}{3!} + \dots \right) + \mathbf{I} + (\hat{\mathbf{r}} \times)^2 \left(+ \frac{\theta^2}{2!} - \frac{\theta^4}{4!} + \dots \right)$$