
Quaternions Rotation Sequences Kuipers Pdf Download

$$Q_E = \begin{pmatrix} \cos\left(\frac{\psi}{2}\right)\cos\left(\frac{\phi}{2}\right)\cos\left(\frac{\theta}{2}\right) + \sin\left(\frac{\psi}{2}\right)\sin\left(\frac{\phi}{2}\right)\sin\left(\frac{\theta}{2}\right) \\ \sin\left(\frac{\psi}{2}\right)\cos\left(\frac{\phi}{2}\right)\cos\left(\frac{\theta}{2}\right) - \cos\left(\frac{\psi}{2}\right)\sin\left(\frac{\phi}{2}\right)\sin\left(\frac{\theta}{2}\right) \\ \cos\left(\frac{\psi}{2}\right)\sin\left(\frac{\phi}{2}\right)\cos\left(\frac{\theta}{2}\right) + \sin\left(\frac{\psi}{2}\right)\cos\left(\frac{\phi}{2}\right)\sin\left(\frac{\theta}{2}\right) \\ \cos\left(\frac{\psi}{2}\right)\cos\left(\frac{\phi}{2}\right)\sin\left(\frac{\theta}{2}\right) - \sin\left(\frac{\psi}{2}\right)\sin\left(\frac{\phi}{2}\right)\cos\left(\frac{\theta}{2}\right) \end{pmatrix} \quad (5.55)$$

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