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Best Pair Of Two Skew Lines Over The Octonions

Best Pair Of Two Skew Lines Over The Octonions P. Saraiva, P.D. Beites*, J. Fernandes, C. Costa And Jos´e Vit´oria Abstract. This Is A Work On An Application Of Octonions To Analytic Geometry. In The Octonionic Context, The Orthogonal Projection Of A Point Onto A Straight Line Is Presented. Further, The Best Approximation 11th, 2024

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(9) $M = M(Z(e_1), X(e_2)^\circ Y(63)) = ZXY$ Axis Rotation Sequence: 3, 1, 2 $M = \begin{pmatrix} \cos\alpha\cos\beta\cos\gamma & -\sin\alpha\cos\beta\cos\gamma & \sin\alpha\cos\beta\sin\gamma & \cos\alpha\sin\beta \\ \cos\alpha\cos\beta\sin\gamma & -\sin\alpha\cos\beta\sin\gamma & \sin\alpha\cos\beta\cos\gamma & \sin\alpha\sin\beta \\ \cos\alpha\sin\beta & -\sin\alpha\sin\beta & 0 & \cos\alpha \\ \sin\alpha & -\cos\alpha & 0 & 0 \end{pmatrix}$ $Q = \begin{pmatrix} \cos\frac{\alpha}{2}\cos\frac{\beta}{2}\cos\frac{\gamma}{2} + \sin\frac{\alpha}{2}\sin\frac{\beta}{2}\sin\frac{\gamma}{2} & \sin\frac{\alpha}{2}\cos\frac{\beta}{2}\cos\frac{\gamma}{2} - \cos\frac{\alpha}{2}\sin\frac{\beta}{2}\sin\frac{\gamma}{2} & \sin\frac{\alpha}{2}\cos\frac{\beta}{2}\sin\frac{\gamma}{2} + \cos\frac{\alpha}{2}\sin\frac{\beta}{2}\cos\frac{\gamma}{2} & \sin\frac{\alpha}{2}\sin\frac{\beta}{2} \\ \sin\frac{\alpha}{2}\sin\frac{\beta}{2}\cos\frac{\gamma}{2} - \cos\frac{\alpha}{2}\cos\frac{\beta}{2}\sin\frac{\gamma}{2} & \cos\frac{\alpha}{2}\cos\frac{\beta}{2}\cos\frac{\gamma}{2} + \sin\frac{\alpha}{2}\sin\frac{\beta}{2}\sin\frac{\gamma}{2} & \cos\frac{\alpha}{2}\cos\frac{\beta}{2}\sin\frac{\gamma}{2} - \sin\frac{\alpha}{2}\sin\frac{\beta}{2}\cos\frac{\gamma}{2} & \cos\frac{\alpha}{2}\sin\frac{\beta}{2} \\ \sin\frac{\alpha}{2}\sin\frac{\beta}{2}\sin\frac{\gamma}{2} + \cos\frac{\alpha}{2}\cos\frac{\beta}{2}\cos\frac{\gamma}{2} & \cos\frac{\alpha}{2}\sin\frac{\beta}{2}\cos\frac{\gamma}{2} + \sin\frac{\alpha}{2}\cos\frac{\beta}{2}\sin\frac{\gamma}{2} & \cos\frac{\alpha}{2}\sin\frac{\beta}{2}\sin\frac{\gamma}{2} - \sin\frac{\alpha}{2}\cos\frac{\beta}{2}\cos\frac{\gamma}{2} & \sin\frac{\alpha}{2}\cos\frac{\beta}{2} \\ \sin\frac{\alpha}{2}\cos\frac{\beta}{2} & -\cos\frac{\alpha}{2}\cos\frac{\beta}{2} & 0 & \sin\frac{\alpha}{2} \end{pmatrix}$ 3th, 2024

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