



Visualizing Quaternions (The Morgan Kaufmann Series in Interactive 3D Technology)

By Hanson, Andrew J.

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 Summary: About the Author; Preface; I Elements of Quaternions; 1 The Discovery of Quaternions; 2 Rotations Take the Stage; 3 Basic Notation; 4 What Are Quaternions?; 5 Roadmap to Quaternion Visualization; 6 Basic Rotations; 7 Visualizing Algebraic Structure; 8 Visualizing Quaternion Spheres; 9 Visualizing Logarithms and Exponentials; 10 Basic Interpolation Methods; 11 Logarithms and Exponentials for Rotations; 12 Seeing Elementary Quaternion Frames; 13 Quaternions and the Belt Trick; 14 More about the Rolling Ball: Order-Dependence is Good; 15 More About Gimbal Lock; II Advanced Quaternion Applications and Topics; 16 Alternative Ways to Write Down Quaternions; 17 Efficiency and Complexity Issues; 18 Advanced Sphere Visualization; 19 Orientation Frames and Rotations; 20 Quaternion Frame Methods; 21 Quaternion Curves and Surfaces; 22 Quaternion Curves; 23 Quaternion Surfaces; 24 Quaternion Volumes; 25 Quaternion Maps of Streamlines and Flow Fields; 26 Quaternion Interpolation; 27 Controlling Quaternion Animation; 28 Global Minimization: Advanced Interpolation; 29 Quaternion Rotator Dynamics; 30 Spherical Riemann Geometry; 31 Quaternion Barycentric Coordinates; 32 Quaternions and Representations of the Rotation Group; 33 Quaternions and the Four Division Algebras; 34 Clifford Algebras; 35 Conclusion; A Notation; B 2D Complex...



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