



The Quaternion: An Algebra That Extends the Use of Complex Numbers (Paperback)

By Edited by Paul F Kisak

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. In mathematics, the quaternions are a number system that extends the complex numbers. They were first described by Irish mathematician William Rowan Hamilton in 1843 and applied to mechanics in three-dimensional space. A feature of quaternions is that multiplication of two quaternions is noncommutative. Hamilton defined a quaternion as the quotient of two directed lines in a three-dimensional space or equivalently as the quotient of two vectors. Quaternions are generally represented in the form: $a + bi + cj + dk$ where a , b , c , and d are real numbers, and i , j , and k are the fundamental quaternion units. Quaternions find uses in both theoretical and applied mathematics, in particular for calculations involving three-dimensional rotations such as in three-dimensional computer graphics, computer vision and crystallographic texture analysis. In practical applications, they can be used alongside other methods, such as Euler angles and rotation matrices, or as an alternative to them, depending on the application. This book is designed to be a state of the art, superb academic reference work and provide an overview of the topic and give the reader...



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