

# Geometric Computing With Clifford Algebras

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In mathematics, a Clifford algebra is an algebra generated by a vector space with a quadratic form, and is a unital associative algebra. As  $K$ -algebras, they generalize the real numbers, complex numbers, quaternions and several other hypercomplex number systems. The theory of Clifford algebras is intimately connected with the theory of quadratic forms and orthogonal transformations.

## **Clifford algebra - Wikipedia**

The geometric algebra (GA) of a vector space is an algebra over a field, noted for its multiplication operation called the geometric product on a space of elements called multivectors, which contains both the scalars and the vector space. Mathematically, a geometric algebra may be defined as the Clifford algebra of a vector space with a quadratic form. ...

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ICCA 2011 : International Conference on Clifford Algebras and their Applications in Weimar, Germany : "Conformal Geometric Objects With Focus On Oriented Points" by Dietmar Hildenbrand and Patrick Charrier". Please find a preprint here. book section "Geometric Algebra Computing" by Dietmar Hildenbrand

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