

Geometric Computing With Clifford Algebras

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Geometric Computing With Clifford Algebras

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Clifford algebra, then called geometric algebra, was introduced more than a cenetury ago by William K. Clifford, building on work by Grassmann and Hamilton. Clifford or geometric algebra shows strong unifying aspects and turned out in the 1960s to be a most adequate formalism for describing different geometry-related algebraic systems as specializations of one "mother algebra" in various subfields of physics and engineering.

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Geometric Computing with Clifford Algebras: Theoretical ...

Each chapter is written in accessible terms accompanied by numerous examples, figures and a complementary appendix on Clifford algebras, all to clarify the theory and the crucial aspects of the application of geometric algebra to problems in graphics engineering, image processing, pattern recognition, computer vision, machine learning, neural computing and cognitive systems.

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Geometric algebras (also called Clifford algebras) are used to endow physical spaces with a useful algebraic structure. By analyzing the physical system within this context, we can find alternate interpretations of the underlying physics. These can simplify computational problems in addition to giving us much more compact and clean notation.

Geometric Algebra: A collection of useful resources []

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. ...

Geometric algebra - Wikipedia

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