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Geometric Computing With Clifford Algebras

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.

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Kenichi Kanatani Understanding Geometric Algebra: Hamilton, Grassmann, and Clifford for Computer Vision and Graphics introduces geometric algebra with an emphasis on the background mathematics of Hamilton, Grassmann, and Clifford. It shows how to describe and compute geometry for 3D modeling applications in computer graphics and computer vision.

Understanding Geometric Algebra: Hamilton, Grassmann, and ...

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