

**GEOMETRIC ALGEBRA AND APPLICATIONS TO  
PHYSICS**

**Elliot Schreurs**

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Preface This dissertation is the result of work carried out in the Department of Applied Mathematics and Theoretical Physics between October and October.

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The conceptual framework for this was laid by Grassmann already inbut it is only in recent times that one has fully begun to appreciate the algebraisation of geometry in general that the constructions of Clifford and Grassmann result in. We Geometric Algebra and Applications to Physics hope to clearly demonstrate the benefit of developing problem solutions in a unified framework for algebra and geometry with the widest possible scope: from quantum computing and electromagnetism to satellite navigation, from neural computing to camera geometry, image processing, robotics and. These neurons can easily take the above mentioned geometric objects or sets of these objects as inputs and apply a wide range of geometric transformations via the geometric algebra valued weights. Euler,Z. As this is impossible, this kind of inner product is meaningless. We present a comprehensive introduction to spacetime algebra that emphasizes its practicality and power as a tool for the study of electromagnetism. From 4.

We can solve Equation 2. In addition, they connect geometric algebra and quantum theory, discussing the Dirac equation, wave functions, and fiber bundles. New Quantity Available: 1.