

Clifford (Geometric) Algebras

*With Applications in Physics,
Mathematics, and Engineering*



William E. Baylis, Editor
Birkhäuser

Clifford Geometric Algebras With Applications In Physics Mathematics And Engineering

Christian Perwass



Clifford Geometric Algebras With Applications In Physics Mathematics And Engineering:

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structures physics and applications in engineering While the papers collected in this volume require that the reader possess a solid knowledge of appropriate background material they lead to the most current research topics With its wide range of topics well established contributors and excellent references and index this book will appeal to graduate students and researchers *Lectures on Clifford (Geometric) Algebras and Applications* Rafal Ablamowicz, Garret Sobczyk, 2003-11-06

The subject of Clifford geometric algebras offers a unified algebraic framework for the direct expression of the geometric concepts in algebra geometry and physics This bird s eye view of the discipline is presented by six of the world s leading experts in the field it features an introductory chapter on Clifford algebras followed by extensive explorations of their applications to physics computer science and differential geometry The book is ideal for graduate students in mathematics physics and computer science it is appropriate both for newcomers who have little prior knowledge of the field and professionals who wish to keep abreast of the latest applications Clifford Algebras Rafal Ablamowicz, 2011-09-30

The invited papers in this volume provide a detailed examination of Clifford algebras and their significance to analysis geometry mathematical structures physics and applications in engineering While the papers collected in this volume require that the reader possess a solid knowledge of appropriate background material they lead to the most current research topics With its wide range of topics well established contributors and excellent references and index this book will appeal to graduate students and researchers **Geometric Algebra with Applications in Science and Engineering** Eduardo Bayro Corrochano, Garret Sobczyk, 2001-04-20 The goal of this book is to present a unified mathematical treatment of diverse problems in mathematics physics computer science and engineering using geometric algebra Geometric algebra was invented by William Kingdon Clifford in 1878 as a unification and generalization of the works of Grassmann and Hamilton which came more than a quarter of a century before Whereas the algebras of Clifford and Grassmann are well known in advanced mathematics and physics they have never made an impact in elementary textbooks where the vector algebra of Gibbs Heaviside still predominates The approach to Clifford algebra adopted in most of the articles here was pioneered in the 1960s by David Hestenes Later together with Garret Sobczyk he developed it into a unified language for mathematics and physics Sobczyk first learned about the power of geometric algebra in classes in electrodynamics and relativity taught by Hestenes at Arizona State University from 1966 to 1967 He still vividly remembers a feeling of disbelief that the fundamental geometric product of vectors could have been left out of his undergraduate mathematics education Geometric algebra provides a rich general mathematical framework for the development of multilinear algebra projective and affine geometry calculus on a manifold the representation of Lie groups and Lie algebras the use of the horosphere and many other areas This book is addressed to a broad audience of applied mathematicians physicists computer scientists and engineers

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concepts in algebra geometry and physics This bird s eye view of the discipline is presented by six of the world s leading experts in the field it features an introductory chapter on Clifford algebras followed by extensive explorations of their applications to physics computer science and differential geometry The book is ideal for graduate students in mathematics physics and computer science it is appropriate both for newcomers who have little prior knowledge of the field and professionals who wish to keep abreast of the latest applications

Geometric Algebra with Applications in Science and Engineering Eduardo Bayro Corrochano, Garret Sobczyk, 2011-06-28 The goal of this book is to present a unified mathematical treatment of diverse problems in mathematics physics computer science and engineering using geometric algebra Geometric algebra was invented by William Kingdon Clifford in 1878 as a unification and generalization of the works of Grassmann and Hamilton which came more than a quarter of a century before Whereas the algebras of Clifford and Grassmann are well known in advanced mathematics and physics they have never made an impact in elementary textbooks where the vector algebra of Gibbs Heaviside still predominates The approach to Clifford algebra adopted in most of the articles here was pioneered in the 1960s by David Hestenes Later together with Garret Sobczyk he developed it into a unified language for mathematics and physics Sobczyk first learned about the power of geometric algebra in classes in electrodynamics and relativity taught by Hestenes at Arizona State University from 1966 to 1967 He still vividly remembers a feeling of disbelief that the fundamental geometric product of vectors could have been left out of his undergraduate mathematics education Geometric algebra provides a rich general mathematical framework for the development of multilinear algebra projective and affine geometry calculus on a manifold the representation of Lie groups and Lie algebras the use of the horosphere and many other areas This book is addressed to a broad audience of applied mathematicians physicists computer scientists and engineers

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