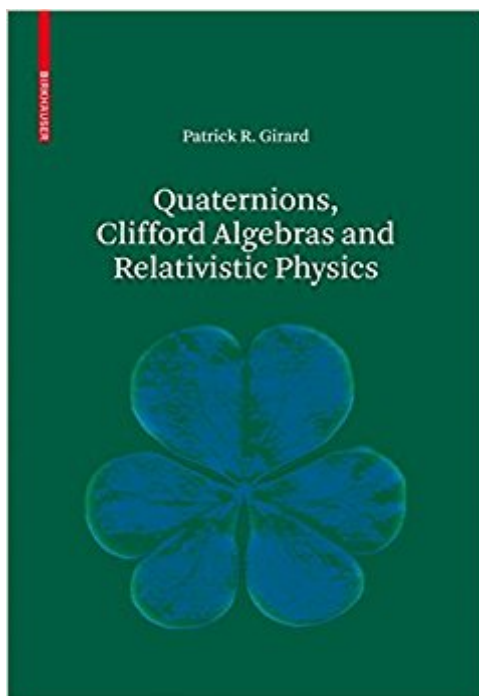


The book was found

Quaternions, Clifford Algebras And Relativistic Physics



Synopsis

The use of Clifford algebras in mathematical physics and engineering has grown rapidly in recent years. Whereas other developments have privileged a geometric approach, this book uses an algebraic approach that can be introduced as a tensor product of quaternion algebras and provides a unified calculus for much of physics. It proposes a pedagogical introduction to this new calculus, based on quaternions, with applications mainly in special relativity, classical electromagnetism, and general relativity.

Book Information

Paperback: 180 pages

Publisher: Birkhäuser; 2007 edition (March 5, 2007)

Language: English

ISBN-10: 3764377909

ISBN-13: 978-3764377908

Product Dimensions: 6.7 x 0.4 x 9.4 inches

Shipping Weight: 14.1 ounces (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #741,887 in Books (See Top 100 in Books) #98 in Books > Science & Math > Mathematics > Pure Mathematics > Group Theory #99 in Books > Science & Math > Physics > Gravity #100 in Books > Science & Math > Mathematics > Number Systems

Customer Reviews

The use of Clifford algebras in mathematical physics and engineering has grown rapidly in recent years. Whereas other developments have privileged a geometric approach, the author uses an algebraic approach which can be introduced as a tensor product of quaternion algebras and provides a unified calculus for much of physics. The book proposes a pedagogical introduction to this new calculus, based on quaternions, with applications mainly in special relativity, classical electromagnetism and general relativity. The volume is intended for students, researchers and instructors in physics, applied mathematics and engineering interested in this new quaternionic Clifford calculus.

Does not fully exploit the subject. Should introduce biquaternions (bq) in particular idempotent bq. Exercises and solutions are worth the money.

[Download to continue reading...](#)

Quaternions, Clifford Algebras and Relativistic Physics Clifford And The Big Storm (Clifford 8x8)
Theory of Operator Algebras I (Operator Algebras and Non-Commutative Geometry V) Clifford's
Manners (Clifford 8x8) Clifford's First School Day (Clifford the Small Red Puppy) Lector de
Scholastic Nivel 1: Clifford va al doctor: (Spanish language edition of Scholastic Reader Level 1:
Clifford Goes to the Doctor) (Spanish Edition) Clifford's Happy Easter (Clifford 8x8) Lie Algebras In
Particle Physics: from Isospin To Unified Theories (Frontiers in Physics) Advanced Molecular
Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the Quantum Theory
of Radiation (Studies in Chemical Physics) Ideas of Space: Euclidean, non-Euclidean, and
Relativistic Quantum Mechanics, Third Edition: Non-Relativistic Theory (Volume 3) Vectors and
Tensors By Example: Including Cartesian Tensors, Quaternions, and Matlab Examples Quaternions
and Rotation Sequences: A Primer with Applications to Orbits, Aerospace and Virtual Reality
Quaternions and Rotation Sequences Introduction to Quaternions Recent Advances in Operator
Theory and Operator Algebras Lie Groups, Lie Algebras, and Representations: An Elementary
Introduction (Graduate Texts in Mathematics) A^* -Algebras and Finite-Dimensional
Approximations (Graduate Studies in Mathematics) Introduction to Lie Algebras and Representation
Theory (Graduate Texts in Mathematics) (v. 9) Wilmington, Delaware: Including its History, the
Delaware Art Museum, the Grand Opera House, Holy Trinity Church, Wilmington State Parks,
Clifford Brown Jazz Festival, and More

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)