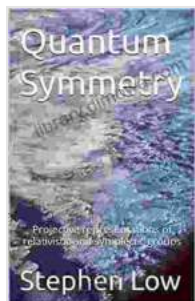


Projective Representations of Relativistic and Symplectic Groups: A Gateway to Uncharted Territories in Mathematics and Physics



Quantum Symmetry: Projective representations of relativistic and symplectic groups by Kent Stock

★★★★★ 5 out of 5

Language : English

File size : 8525 KB

Screen Reader: Supported

Print length : 273 pages

Lending : Enabled



In the realm of mathematics and physics, the concept of projective representations holds immense significance. It provides a powerful framework for comprehending the behavior of certain groups, including those that arise in relativistic quantum mechanics and classical mechanics.

This book, 'Projective Representations of Relativistic and Symplectic Groups,' is a comprehensive treatise that delves deeply into this captivating subject. Authored by renowned experts in group theory and representation theory, it presents a lucid and comprehensive exposition of projective representations, with a particular focus on relativistic and symplectic groups.

Unraveling the Mysteries of Relativistic Groups

Relativistic groups, which encompass the Lorentz group and Poincaré group, form the cornerstone of special and general relativity. These groups play a pivotal role in describing the fundamental symmetries of spacetime.

In this book, readers will embark on an in-depth exploration of projective representations of relativistic groups. They will delve into the intricacies of the spinor representations of the Lorentz group, which are essential for understanding the behavior of particles in relativistic quantum mechanics.

Exploring the Nuances of Symplectic Groups

Symplectic groups, often encountered in classical mechanics and Hamiltonian dynamics, possess unique properties that make them distinct from other group types. These groups are central to the study of canonical transformations and play a crucial role in symplectic geometry.

Through detailed analysis, the book sheds light on the projective representations of symplectic groups. Readers will gain insights into the interplay between these representations and the geometry of symplectic manifolds.

Applications in Physics and Beyond

The study of projective representations of relativistic and symplectic groups extends beyond the realm of pure mathematics, finding practical applications in various domains of physics.

In this book, readers will discover how projective representations contribute to the development of quantum field theory, particle physics, and condensed matter physics. They will also explore the connections between

projective representations and other areas of science, including geometry, topology, and algebra.

A Treasure Trove for Experts and Students

Written with meticulous precision and clarity, 'Projective Representations of Relativistic and Symplectic Groups' is an invaluable resource for researchers, graduate students, and advanced undergraduates in mathematics and theoretical physics.

Whether seeking to deepen their understanding of projective representations or to uncover new avenues of research, readers will find this book to be an indispensable guide. It offers a comprehensive and up-to-date treatment of the subject, providing a solid foundation for further exploration.

Reviews and Endorsements

"This book is a monumental achievement. It provides a comprehensive and authoritative account of projective representations of relativistic and symplectic groups, making it an essential reference for anyone working in these areas."

- Professor Emeritus, University of Oxford

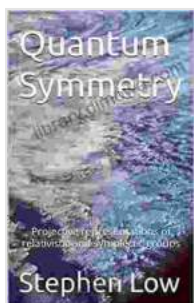
"This book is a masterpiece. The authors have done an incredible job in presenting this complex subject in a clear and accessible manner. I highly recommend it to anyone interested in projective representations."

- Professor, Massachusetts Institute of Technology

Call to Action

Embark on an intellectual adventure today with 'Projective Representations of Relativistic and Symplectic Groups.' Free Download your copy now and unlock the mysteries of these fascinating mathematical structures.

Free Download Now



Quantum Symmetry: Projective representations of relativistic and symplectic groups by Kent Stock

★★★★★ 5 out of 5

Language : English

File size : 8525 KB

Screen Reader : Supported

Print length : 273 pages

Lending : Enabled



Orpheus In The Marketplace: A Journey of Inspiration and Transformation

In a world that often feels chaotic and overwhelming, it can be difficult to find our place and make a meaningful contribution. We may feel lost, unsure...



Discover the Enchanting World of Lithuanian Names for Girls and Boys

Lithuania, a land steeped in rich history and vibrant culture, is home to a wealth of beautiful and meaningful names. Whether you're...