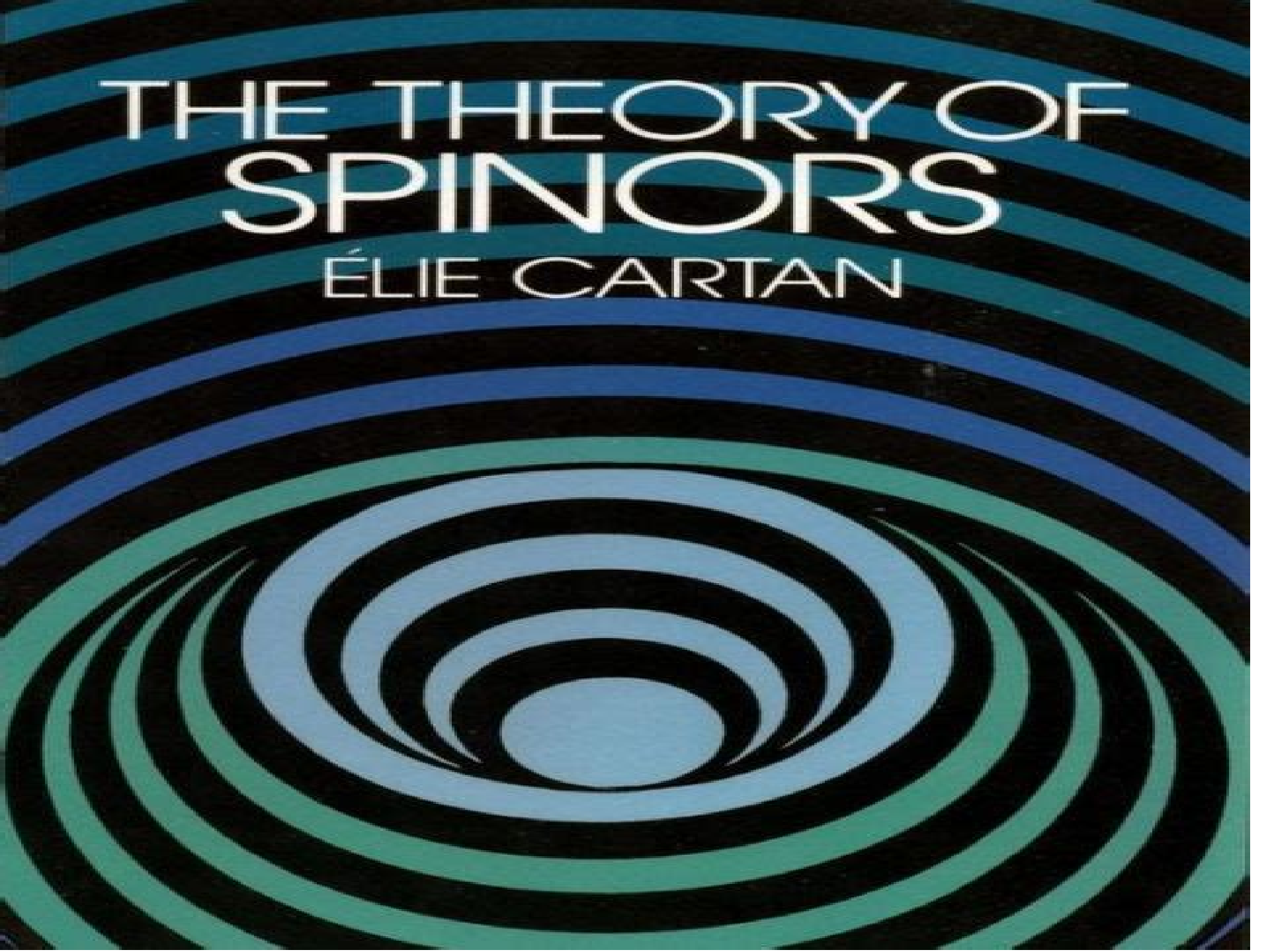


THE THEORY OF SPINORS

ÉLIE CARTAN



The Theory Of Spinors Eacute Lie Cartan

Roman Wölfel



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The Theory of Spinors Élie Cartan, 2012-04-30 Describes orthogonal and related Lie groups using real or complex parameters and indefinite metrics Develops theory of spinors by giving a purely geometric definition of these mathematical entities

The Theory of Spinors Elie Cartan, 1966 Describes orthogonal and related Lie groups using real or complex parameters and indefinite metrics Develops theory of spinors by giving a purely geometric definition of these mathematical entities

The Theory of Spinors Elie Cartan, 1960 Lessons on the Theory of Spinors Elie Cartan, 19?? 3-D Spinors, Spin-Weighted Functions and their Applications Gerardo F. Torres del Castillo, 2012-09-07 The spinor calculus employed in general relativity is a very useful tool many expressions and computations are considerably simplified if one makes use of spinors instead of tensors Some advantages of the spinor formalism applied in the four dimensional space time of general relativity come from the fact that each spinor index takes two values only which simplifies the algebraic manipulations Spinors for spaces of any dimension can be defined in connection with representations of orthogonal groups and in the case of spaces of dimension three the spinor indices also take two values only which allows us to apply some of the results found in the two component spinor formalism of four dimensional space time The spinor formalism for three dimensional spaces has been partially developed mainly for spaces with a definite metric also in connection with general relativity e g in space plus time decompositions of space time defining the spinors of three dimensional space from those corresponding to four dimensional space time but the spinor formalism for three dimensional spaces considered on their own is not widely known or employed One of the aims of this book is to give an account of the spinor formalism for three dimensional spaces with definite or indefinite metric and its applications in physics and differential geometry Another is to give an elementary treatment of the spin weighted functions and their various applications in mathematical physics

The theory of spinors, foreword by R. Streater Elie Cartan, André Mercier, **The Theory of Spinors. Foreword by Raymond Streater** Elie Cartan, 1966

Theory of Spinors Moshe Carmeli, Shimon Malin, 2000 Spinors are used extensively in physics It is widely accepted that they are more fundamental than tensors and the easy way to see this is through the results obtained in general relativity theory by using spinors results that could not have been obtained by using tensor methods only The foundation of the concept of spinors is groups spinors appear as representations of groups This textbook expounds the relationship between spinors and representations of groups As is well known spinors and representations are both widely used in the theory of elementary particles The authors present the origin of spinors from representation theory but nevertheless apply the theory of spinors to general relativity theory and part of the book is devoted to curved space time applications Based on lectures given at Ben Gurion University this textbook is intended for advanced undergraduate and graduate students in physics and mathematics as well as being a reference for researchers

Theory of Spinors and Its Application in Physics and Mechanics Vladimir A. Zhelnorovich, 2019-10-24 This book contains a systematic exposition of the theory of spinors in

finite dimensional Euclidean and Riemannian spaces The applications of spinors in field theory and relativistic mechanics of continuous media are considered The main mathematical part is connected with the study of invariant algebraic and geometric relations between spinors and tensors The theory of spinors and the methods of the tensor representation of spinors and spinor equations are thoroughly expounded in four dimensional and three dimensional spaces Very useful and important relations are derived that express the derivatives of the spinor fields in terms of the derivatives of various tensor fields The problems associated with an invariant description of spinors as objects that do not depend on the choice of a coordinate system are addressed in detail As an application the author considers an invariant tensor formulation of certain classes of differential spinor equations containing in particular the most important spinor equations of field theory and quantum mechanics Exact solutions of the Einstein Dirac equations nonlinear Heisenberg s spinor equations and equations for relativistic spin fluids are given The book presents a large body of factual material and is suited for use as a handbook It is intended for specialists in theoretical physics as well as for students and post graduate students of physical and mathematical specialties

Spinors in Physics Jean Hladik,1999-06-11 Invented by Dirac in creating his relativistic quantum theory of the electron spinors are important in quantum theory relativity nuclear physics atomic and molecular physics and condensed matter physics Essentially they are the mathematical entities that correspond to electrons in the same way that ordinary wave functions correspond to classical particles Because of their relations to the rotation group $SO(n)$ and the unitary group $SU(n)$ this discussion will be of interest to applied mathematicians as well as physicists

Spinors In Physics And Geometry Giuseppe Furlan,Andrzej Trautman,1988-11-01 This conference brought together physicists and mathematicians working on spinors which have played an important role in recent research on supersymmetry Kaluza Klein theories twistors and general relativity

Theory of Spinors and Its Application in Physics and Mechanics Vladimir Arkad'evich Zhelnorovich,2019 This book contains a systematic exposition of the theory of spinors in finite dimensional Euclidean and Riemannian spaces The applications of spinors in field theory and relativistic mechanics of continuous media are considered The main mathematical part is connected with the study of invariant algebraic and geometric relations between spinors and tensors The theory of spinors and the methods of the tensor representation of spinors and spinor equations are thoroughly expounded in four dimensional and three dimensional spaces Very useful and important relations are derived that express the derivatives of the spinor fields in terms of the derivatives of various tensor fields The problems associated with an invariant description of spinors as objects that do not depend on the choice of a coordinate system are addressed in detail As an application the author considers an invariant tensor formulation of certain classes of differential spinor equations containing in particular the most important spinor equations of field theory and quantum mechanics Exact solutions of the Einstein Dirac equations nonlinear Heisenbergs spinor equations and equations for relativistic spin fluids are given The book presents a large body of factual material and is suited for use as a handbook It is intended for specialists in

theoretical physics as well as for students and post graduate students of physical and mathematical specialties **An Introduction to Spinors and Geometry with Applications in Physics** Ian M. Benn, Robin W. Tucker, 1987 The aim of this book is to introduce theoretical physicists of graduate student level upwards to the methods of differential geometry and Clifford algebras in classical field theory back cover **The Theory of Spinors** Petr Konstantinovič Raševskij (Mathématicien, Russie), 1960 **The Algebraic Theory of Spinors** Claude Chevalley, 1972 Spinors in Four-Dimensional Spaces Gerardo F. Torres del Castillo, 2010-07-23 Without using the customary Clifford algebras frequently studied in connection with the representations of orthogonal groups this book gives an elementary introduction to the two component spinor formalism for four dimensional spaces with any signature Some of the useful applications of four dimensional spinors such as Yang Mills theory are derived in detail using illustrative examples Spinors in Four Dimensional Spaces is aimed at graduate students and researchers in mathematical and theoretical physics interested in the applications of the two component spinor formalism in any four dimensional vector space or Riemannian manifold with a definite or indefinite metric tensor This systematic and self contained book is suitable as a seminar text a reference book and a self study guide **Cartan Spinor Bundles on Manifolds** Thomas Friedrich, 1998 **Twistor Spinors and Normal Cartan Connections in Conformal Geometries** Felipe Leitner, 2000 **The Algebraic Theory of Spinors** Claude Chevalley (Mathématicien.), 1955 **Killing Spinors and Cartan Connections** Aram Garabed Dedeyan, American University of Beirut. Faculty of Arts and Sciences. Department of Mathematics, 2011

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