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SPINORS IN PHYSICS AND GEOMETRY

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Andrzej Trautman,G. Furlan

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Spinors in Physics and Geometry Andrzej Trautman,G. Furlan,1988-01-01 **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 **An Introduction to Spinors and Geometry with Applications in Physics** Ian M. Benn,1987 **The Theory of Spinors** Elie Cartan,1981-02-01 The French mathematician lie Cartan 1869 1951 was one of the founders of the modern theory of Lie groups a subject of central importance in mathematics and also one with many applications In this volume he describes the orthogonal groups either with real or complex parameters including reflections and also the related groups with indefinite metrics He develops the theory of spinors he discovered the general mathematical form of spinors in 1913 systematically by giving a purely geometrical definition of these mathematical entities this geometrical origin makes it very easy to introduce spinors into Riemannian geometry and particularly to apply the idea of parallel transport to these geometrical entities The book is divided into two parts The first is devoted to generalities on the group of rotations in n dimensional space and on the linear representations of groups and to the theory of spinors in three dimensional space Finally the linear representations of the group of rotations in that space of particular importance to quantum mechanics are also examined The second part is devoted to the theory of spinors in spaces of any number of dimensions and particularly in the space of special relativity Minkowski space While the basic orientation of the book as a whole is mathematical physicists will be especially interested in the final chapters treating the applications of spinors in the rotation and Lorentz groups In this connection Cartan shows how to derive the Dirac equation for any group and extends the equation to general relativity One of the greatest mathematicians of the 20th century Cartan made notable contributions in mathematical physics differential geometry and group theory Although a profound theorist he was able to explain difficult concepts with clarity and simplicity In this detailed explicit treatise mathematicians specializing in quantum mechanics will find his lucid approach a great value

Spinors and Space-Time: Volume 2, Spinor and Twistor Methods in Space-Time Geometry Roger Penrose,Wolfgang Rindler,1984 In the two volumes that comprise this work Roger Penrose and Wolfgang Rindler introduce the calculus of 2 spinors and the theory of twistors and discuss in detail how these powerful and elegant methods may be used to elucidate the structure and properties of space time In volume 1 Two spinor calculus and relativistic fields the calculus of 2 spinors is introduced and developed Volume 2 Spinor and twistor methods in space time geometry introduces the theory of twistors and studies in detail how the theory of twistors and 2 spinors can be applied to the study of space time This work will be of great value to all those studying relativity differential geometry particle physics and quantum field theory from beginning graduate students to experts in these fields **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 **Spinor Structures in Geometry and Physics** V. M. Redkov,Olga Vladimirovna Veko,E. M. Ovsiyuk,Alexandru Oana,Mircea Neagu,Vladimir Balan,2015 This book is devoted to investigating the spinor structures in particle physics and in polarization optics In fact it consists of two parts joined by the question Which are the manifestations of spinor structures in different branches of physics It is based on original research The main idea is the statement that the physical understanding of geometry should be based on physical field theories The book contains numerous topics with the accent on field theory quantum mechanics and polarization optics of the light and on the spinor approach Spinors and Space-time ,1986 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 rep resentations 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 gen eral 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 **Spinors and Space-time** Roger

Penrose,Wolfgang Rindler,1984 Theory Of Spinors: An Introduction Moshe Carmeli,Shimon Malin,2000-04-12 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 *The Spinorial Chessboard* Paolo Budinich,Andrzej Trautman,1988 **Theory of Spinors and Its Application in Physics and Mechanics** Vladimir Arkadʹevich 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 *The Theory of Spinors* Elie Cartan,1966 Describes orthgonal 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 **Spinors and Space-Time: Volume 1, Two-Spinor Calculus and Relativistic Fields** Roger Penrose,Wolfgang Rindler,1987-02-05 This volume introduces and systematically develops the calculus of 2 spinors This is the first detailed exposition of this technique which leads not only to a deeper understanding of the structure of space time but also provides shortcuts to some very tedious calculations Many results are given here for the first time

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