

# The Algebraic Theory Of Spinors And Clifford Algebras Collected Works Volume 2 Collected Works Of Claude Chevalley V

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Elie Cartan*

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

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

in 1982 claude chevalley expressed three specific wishes with respect to the publication of his works first he stated very clearly that such a publication should include his non technical papers his reasons for that were two fold one reason was his life long commitment to epistemology and to politics which made him strongly opposed to the view otherwise currently held that mathematics involves only half of a man as he wrote to g c rota on november 29th 1982 an important number of papers published by me are not of a mathematical nature some have epistemological features which might explain their presence in an edition of collected papers of a mathematician but quite a number of them are concerned with theoretical politics they reflect an aspect of myself the omission of which would i think give a wrong idea of my lines of thinking on the other hand chevalley thought that the collected works of a mathematician ought to be read not only by other mathematicians but also by historians of science

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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

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theoretical physics as well as for students and post graduate students of physical and mathematical specialties

describes the algebraic and geometric applications to the theory of spinors and includes the principle of triality in eight dimensional space

from spinors to quantum mechanics discusses group theory and its use in quantum mechanics chapters 1 to 4 offer an introduction to group theory and it provides the reader with an exact and clear intuition of what a spinor is showing that spinors are just a mathematically complete notation for group elements chapter 5 contains the first rigorous derivation of the dirac equation from a simple set of assumptions the remaining chapters will interest the advanced reader who is interested in the meaning of quantum mechanics they propose a novel approach to the foundations of quantum mechanics based on the idea that the meaning of the formalism is already provided by the mathematics in the traditional approach to quantum mechanics as initiated by heisenberg one has to start from a number of experimental results and then derive a set of rules and calculations that reproduce the observed experimental results in such an inductive approach the underlying assumptions are not given at the outset the reader has to figure them out and this has proven to be difficult the book shows that a different bottom up approach to quantum mechanics is possible which merits further investigation as it demonstrates that with the methods used the reader can obtain the correct results in a context where one would hitherto not expect this to be possible

a comprehensive graduate level textbook introducing quantum field theory giving equal emphasis to operator and path integral formalisms

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

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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

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

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