

# THEORY OF SPINORS

An Introduction

Moshe Carmeli  
Shimon Malin

 World Scientific

# Theory Of Spinors An Introduction

**Moshe Carmeli, Shimon Malin**



## **Theory Of Spinors An Introduction:**

*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

*Introduction To 2-spinors In General Relativity* Peter J O'donnell, 2003-04-03 This book deals with 2 spinors in general relativity beginning by developing spinors in a geometrical way rather than using representation theory which can be a little abstract This gives the reader greater physical intuition into the way in which spinors behave The book concentrates on the algebra and calculus of spinors connected with curved space time Many of the well known tensor fields in general relativity are shown to have spinor counterparts An analysis of the Lanczos spinor concludes the book and some of the techniques so far encountered are applied to this Exercises play an important role throughout and are given at the end of each chapter

[Superstring Theory: Volume 1, Introduction](#) Michael B. Green, John H. Schwarz, Edward Witten, 2012-07-26 Twenty five years ago Michael Green John Schwarz and Edward Witten wrote two volumes on string theory Published during a period of rapid progress in this subject these volumes were highly influential for a generation of students and researchers Despite the immense progress that has been made in the field since then the systematic exposition of the foundations of superstring theory presented in these volumes is just as relevant today as when first published A self contained introduction to superstrings Volume 1 begins with an elementary treatment of the bosonic string before describing the incorporation of additional degrees of freedom fermionic degrees of freedom leading to supersymmetry and internal quantum numbers leading to gauge interactions A detailed discussion of the evaluation of tree approximation scattering amplitudes is also given Featuring a new preface setting the work in context in light of recent advances this book is invaluable for graduate students and researchers in general relativity and elementary particle theory

*An Introduction to Quantum Field Theory* George Serman, 1993-08-26 Starting from introductory quantum and classical mechanics this text develops the quantum field theories that make up the Standard Model of elementary processes in a systematic presentation emphasizing theoretical concepts as well as experimental applications

**Introduction To String Field Theory** Warren Siegel, 1988-09-01 This volume covers the most up to date findings on string field theory It is presented in a new approach as a result of insights gained from the theory This includes

the use of a universal method for treating free field theories which allows the derivation of a single simple free local Poincare invariant gauge invariant action that can be applied directly to any fields

**An Introduction to Twistor Theory** S. A. Huggett, K. P. Tod, 1994 Evolving from graduate lectures given in London and Oxford this introduction to twistor theory and modern geometrical approaches to space time structure will provide graduate students with the basics of twistor theory presupposing some knowledge of special relativity and differential geometry

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

*Introduction to Elementary Particle Theory* Yu. V. Novozhilov, 2013-10-22 Introduction to Elementary Particle Theory details the fundamental concepts and basic principles of the theory of elementary particles The title emphasizes on the phenomenological foundations of relativistic theory and to the strong interactions from the S matrix standpoint The text first covers the basic description of elementary particles and then proceeds to tackling relativistic quantum mechanics and kinematics Next the selection deals with the problem of internal symmetry In the last part the title details the elements of dynamical theory The book will be of great use to students and researchers in the field of particle physics

Handbook of Quantum Gravity Cosimo Bambi, Leonardo Modesto, Ilya Shapiro, 2024-12-03 The search for a theory of quantum gravity is one of the most important and fascinating problems in modern theoretical physics While we do not have yet a complete theory of quantum gravity significant advancements have been done in the past decades In this handbook every section is dedicated to a specific approach towards a theory of quantum gravity and is edited by the leading experts in the field This book represents both a valuable resource for graduate students and an important reference for researchers in quantum gravity

Introduction to Axiomatic Quantum Field Theory Nikolai Nikolaevich Bogoliubov, Anatoliĭ Alekseevich Logunov, Ivan Todorov Todorov, 1975 This collection includes tracks with small and big bands as well as several from his famed sessions with strings Chronological sequenced from 1947 s The Bird from the Mercury album THE JAZZ SCENE through My Little Suede Shoes and Loverman to his 1953 reprise of his classic Now s The Time all twelve tracks are classics from one of the greatest

Introduction to Tensors, Spinors, and Relativistic Wave-equations (relation Structure) Edward Michael Corson, 1981

**Introduction to the Theory of Relativity and the Principles of Modern Physics** Huseyin Yilmaz, 1965

Lectures on Group Theory and Particle Theory Henri Bacry, 1977

**Introduction to the Theory of Quantized Fields** Nikolai Nikolaevich Bogoliubov, Dmitriĭ Vasil'evich Shirkov, 1980

**An Introduction to Spinors and Geometry with Applications in Physics**, Ian M. Benn, Robin W. Tucker, 1990-01-01 There is now a greater range of mathematics used in theoretical physics than ever 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 Recent developments in particle physics have elevated the notion of spinor fields to considerable prominence so that many new ideas require considerable knowledge of their properties

and expertise in their manipulation It is also widely appreciated now that differential geometry has an important role to play in unification schemes which include gravity All the important prerequisite results of group theory linear algebra real and complex vector spaces are discussed Spinors are approached from the viewpoint of Clifford algebras This gives a systematic way of studying their properties in all dimensions and signatures Importance is also placed on making contact with the traditional component oriented approach The basic ideas of differential geometry are introduced emphasising tensor rather than component methods Spinor fields are introduced naturally in the context of Clifford bundles Spinor field equations on manifolds are introduced together with the global implications their solutions have on the underlying geometry Many mathematical concepts are illustrated using field theoretical descriptions of the Maxwell Dirac and Rarita Schwinger equations their symmetries and couplings to Einsteinian gravity The core of the book contains material which is applicable to physics After a discussion of the Newtonian dynamics of particles the importance of Lorentzian geometry is motivated by Maxwell s theory of electromagnetism A description of gravitation is motivated by Maxwell s theory of electromagnetism A description of gravitation in terms of the curvature of a pseudo Riemannian spacetime is used to incorporate gravitational interactions into the language of classical field theory This book will be of great interest to postgraduate students in theoretical physics and to mathematicians interested in applications of differential geometry in physics

Introduction to Meson Theory Hans Albrecht Bethe,1954     *Introduction to the Quantum Theory of Scattering* Leonard S. Rodberg,Raphael Morton Thaler,1967     Algebra, with Applications to Physics and Systems Theory: Linear and tensor algebra Robert Hermann,1973     Algebra, with Applications to Physics and Systems Theory: Algebraic topics of importance in systems theory Robert Hermann,1973     **Algebra with Applications to Physics and Systems Theory** Robert Hermann,1973

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