

Pietro Giuseppe Frè

Gravity, a Geometrical Course

Volume 2: Black Holes, Cosmology
and Introduction to Supergravity



 Springer

Gravity A Geometrical Course 2

Pietro Giuseppe Fré



Gravity A Geometrical Course 2:

Gravity, a Geometrical Course Pietro Giuseppe Frè, 2012-10-24 Gravity a Geometrical Course presents general relativity GR in a systematic and exhaustive way covering three aspects that are homogenized into a single texture i the mathematical geometrical foundations exposed in a self consistent contemporary formalism ii the main physical astrophysical and cosmological applications updated to the issues of contemporary research and observations with glimpses on supergravity and superstring theory iii the historical development of scientific ideas underlying both the birth of general relativity and its subsequent evolution The book is divided in two volumes Volume Two is covers black holes cosmology and an introduction to supergravity The aim of this volume is two fold It completes the presentation of GR and it introduces the reader to theory of gravitation beyond GR which is supergravity Starting with a short history of the black hole concept the book covers the Kruskal extension of the Schwarzschild metric the causal structures of Lorentzian manifolds Penrose diagrams and a detailed analysis of the Kerr Newman metric An extensive historical account of the development of modern cosmology is followed by a detailed presentation of its mathematical structure including non isotropic cosmologies and billiards de Sitter space and inflationary scenarios perturbation theory and anisotropies of the Cosmic Microwave Background The last three chapters deal with the mathematical and conceptual foundations of supergravity in the frame of free differential algebras Branes are presented both as classical solutions of the bulk theory and as world volume gauge theories with particular emphasis on the geometrical interpretation of kappa supersymmetry The rich bestiary of special geometries underlying supergravity lagrangians is presented followed by a chapter providing glances on the equally rich collection of special solutions of supergravity Pietro Frè is Professor of Theoretical Physics at the University of Torino Italy and is currently serving as Scientific Counsellor of the Italian Embassy in Moscow His scientific passion lies in supergravity and all allied topics since the inception of the field in 1976 He was professor at SISSA worked in the USA and at CERN He has taught General Relativity for 15 years He has previously two scientific monographs Supergravity and Superstrings and The N 2 Wonderland He is also the author of a popular science book on cosmology and two novels in Italian Gravity, a Geometrical Course Pietro Giuseppe Frè, 2012-10-24 Gravity a Geometrical Course presents general relativity GR in a systematic and exhaustive way covering three aspects that are homogenized into a single texture i the mathematical geometrical foundations exposed in a self consistent contemporary formalism ii the main physical astrophysical and cosmological applications updated to the issues of contemporary research and observations with glimpses on supergravity and superstring theory iii the historical development of scientific ideas underlying both the birth of general relativity and its subsequent evolution The book divided in two volumes is a rich resource for graduate students and those who wish to gain a deep knowledge of the subject without an instructor Volume One is dedicated to the development of the theory and basic physical applications It guides the reader from the foundation of special relativity to Einstein field equations illustrating some basic applications in astrophysics A

detailed account of the historical and conceptual development of the theory is combined with the presentation of its mathematical foundations Differentiable manifolds fibre bundles differential forms and the theory of connections are covered with a sketchy introduction to homology and cohomology Pseudo Riemannian geometry is presented both in the metric and in the vielbein approach Physical applications include the motions in a Schwarzschild field leading to the classical tests of GR light ray bending and periastron advance discussion of relativistic stellar equilibrium white dwarfs Chandrasekhar mass limit and polytropes An entire chapter is devoted to tests of GR and to the indirect evidence of gravitational wave emission The formal structure of gravitational theory is at all stages compared with that of non gravitational gauge theories as a preparation to its modern extension namely supergravity discussed in the second volume

Pietro Frè is Professor of Theoretical Physics at the University of Torino Italy and is currently serving as Scientific Counsellor of the Italian Embassy in Moscow His scientific passion lies in supergravity and all allied topics since the inception of the field in 1976 He was professor at SISSA worked in the USA and at CERN He has taught General Relativity for 15 years He has previously two scientific monographs *Supergravity and Superstrings* and *The N = 2 Wonderland* He is also the author of a popular science book on cosmology and two novels in Italian

Supersymmetric Field Theories Sergio Cecotti, 2015-01-08 Adopting an elegant geometrical approach this advanced pedagogical text describes deep and intuitive methods for understanding the subtle logic of supersymmetry while avoiding lengthy computations The book describes how complex results and formulae obtained using other approaches can be significantly simplified when translated to a geometric setting Introductory chapters describe geometric structures in field theory in the general case while detailed later chapters address specific structures such as parallel tensor fields G structures and isometry groups The relationship between structures in supergravity and periodic maps of algebraic manifolds Kodaira Spencer theory modularity and the arithmetic properties of supergravity are also addressed Relevant geometric concepts are introduced and described in detail providing a self contained toolkit of useful techniques formulae and constructions Covering all the material necessary for the application of supersymmetric field theories to fundamental physical questions this is an outstanding resource for graduate students and researchers in theoretical physics

MUS - Mathematimus - Hyperelliptical Geometry Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of π representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0 An Elementary Course of Mathematics, 1853

Advances in Geometry and Lie Algebras from Supergravity Pietro Giuseppe Frè, 2018-02-24 This book aims to provide an overview of several topics in advanced differential geometry and Lie group theory all of them stemming from mathematical problems in supersymmetric physical theories It presents a mathematical illustration of the main development in geometry and symmetry theory that occurred under the fertilizing influence of supersymmetry

supergravity The contents are mainly of mathematical nature but each topic is introduced by historical information and enriched with motivations from high energy physics which help the reader in getting a deeper comprehension of the subject

Discrete, Finite and Lie Groups Pietro Giuseppe Fré, 2023-08-07 In a self contained and exhaustive work the author covers Group Theory in its multifaceted aspects treating its conceptual foundations in a proper logical order First discrete and finite group theory that includes the entire chemical physical field of crystallography is developed self consistently followed by the structural theory of Lie Algebras with a complete exposition of the roots and Dynkin diagrams lore A primary on Fibre Bundles Connections and Gauge fields Riemannian Geometry and the theory of Homogeneous Spaces G/H is also included and systematically developed <https://petrusfremathandlit.net>

Gravity and Strings Tomás Ortín, 2015-03-26 Self contained and comprehensive this definitive new edition of Gravity and Strings is a unique resource for graduate students and researchers in theoretical physics From basic differential geometry through to the construction and study of black hole and black brane solutions in quantum gravity via all the intermediate stages this book provides a complete overview of the intersection of gravity supergravity and superstrings Now fully revised this second edition covers an extensive array of topics including new material on non linear electric magnetic duality the electric tensor formalism matter coupled supergravity supersymmetric solutions the geometries of scalar manifolds appearing in 4 and 5 dimensional supergravities and much more Covering reviews of important solutions and numerous solution generating techniques and accompanied by an exhaustive index and bibliography this is an exceptional reference work

A Conceptual History of Space and Symmetry Pietro Giuseppe Fré, 2018-09-14 This book presents the author's personal historical perspective and conceptual analysis on symmetry and geometry The author enlightens with modern views the historical process which led to the contemporary vision of space and symmetry that are used in theoretical physics and in particular in such abstract and advanced descriptions of the physical world as those provided by supergravity The book is written intertwining storytelling and philosophical argumentation with some essential technical material The author argues that symmetry and geometry are inextricably entangled and their current meaning is the result of a long process of abstraction which was determined through history and can be understood within the analytic system of thought of western civilization that started with the Ancient Greeks The evolution of geometry and symmetry theory in the last forty years has been deeply and constructively influenced by supersymmetry supergravity and the allied constructions of strings and branes Further advances in theoretical physics cannot be based simply on the Galilean method of interrogating nature and then formulating a testable theory to explain the observed phenomena One ought to interrogate human thought meaning frontier line mathematics concerned with geometry and symmetry in order to find there the threads of so far unobserved correspondences reinterpretations and renewed conceptions

Groups and Manifolds Pietro Giuseppe Fré, Alexander Fedotov, 2017-12-18 Groups and Manifolds is an introductory yet a complete self contained course on mathematics of symmetry group theory and differential geometry of

symmetric spaces with a variety of examples for physicists touching briefly also on super symmetric field theories The core of the course is focused on the construction of simple Lie algebras emphasizing the double interpretation of the ADE classification as applied to finite rotation groups and to simply laced simple Lie algebras Unique features of this book are the full fledged treatment of the exceptional Lie algebras and a rich collection of MATHEMATICA Notebooks implementing various group theoretical constructions

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The Ontology of Spacetime II ,2008-06-17 The sixteen papers collected in this volume are expanded and revised versions of talks delivered at the Second International Conference on the Ontology of Spacetime organized by the International Society for the Advanced Study of Spacetime John Earman President at Concordia University Montreal from 9 to 11 June 2006 Most chapters are devoted to subjects directly relating to the ontology of spacetime The book starts with four papers that discuss the ontological status of spacetime and the processes occurring in it from a point of view that is first of all conceptual and philosophical The focus then slightly shifts in the five papers that follow to considerations more directly involving technical considerations from relativity theory After this Time Becoming and Change take centre stage in the next five papers The book ends with two excursions into relatively uncharted territory a consideration of the status of Kaluza Klein theory and an investigation of possible relations between the nature of spacetime and condensed matter physics respectively Space and time in present day physics and philosophy Relatively low level of technicality easily accessible Introduction from scratch of the debates surrounding time Broad spectrum of approaches coherently represented

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