



**Tevian Dray**

# **THE GEOMETRY OF SPECIAL RELATIVITY**

Second Edition



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A CHAPMAN & HALL BOOK

# Relativity And Geometry

**Gregory L. Naber**



## Relativity And Geometry:

Relativity and Geometry Roberto Torretti, 1996-01-01 Early in this century it was shown that the new non Newtonian physics known as Einstein's Special Theory of Relativity rested on a new non Euclidean geometry which incorporated time and space into a unified chronogeometric structure This high level study elucidates the motivation and significance of the changes in physical geometry brought about by Einstein in both the first and the second phase of Relativity After a discussion of Newtonian principles and 19th century views on electrodynamics and the aether the author offers illuminating expositions of Einstein's electrodynamics of moving bodies Minkowski spacetime Einstein's quest for a theory of gravity gravitational geometry the concept of simultaneity time and causality and other topics An important Appendix designed to define spacetime curvature considers differentiable manifolds fiber bundles linear connections and useful formulae Relativity continues to be a major focus of interest for physicists mathematicians and philosophers of science This highly regarded work offers them a rich historico critical exposition emphasizing geometrical ideas of the elements of the Special and General Theory of Relativity

*Geometric Relativity* Dan A. Lee, 2019-09-25 Many problems in general relativity are essentially geometric in nature in the sense that they can be understood in terms of Riemannian geometry and partial differential equations This book is centered around the study of mass in general relativity using the techniques of geometric analysis Specifically it provides a comprehensive treatment of the positive mass theorem and closely related results such as the Penrose inequality drawing on a variety of tools used in this area of research including minimal hypersurfaces conformal geometry inverse mean curvature flow conformal flow spinors and the Dirac operator marginally outer trapped surfaces and density theorems This is the first time these topics have been gathered into a single place and presented with an advanced graduate student audience in mind several dozen exercises are also included The main prerequisite for this book is a working understanding of Riemannian geometry and basic knowledge of elliptic linear partial differential equations with only minimal prior knowledge of physics required The second part of the book includes a short crash course on general relativity which provides background for the study of asymptotically flat initial data sets satisfying the dominant energy condition

*The Geometry of Spacetime* James J. Callahan, 2013-03-09 In 1905 Albert Einstein offered a revolutionary theory special relativity to explain some of the most troubling problems in current physics concerning electromagnetism and motion Soon afterwards Hermann Minkowski recast special relativity essentially as a new geometric structure for spacetime These ideas are the subject of the first part of the book The second part develops the main implications of Einstein's general relativity as a theory of gravity rooted in the differential geometry of surfaces The author explores the way an individual observer views the world and how a pair of observers collaborates to gain objective knowledge of the world He has tried to encompass both the general and special theory by using the geometry of spacetime as the unifying theme of the book To read it one needs only a first course in linear algebra and multivariable calculus and familiarity with the physical applications of calculus

**Differential Geometry and General Relativity** Canbin Liang, Bin Zhou, 2023-08-28 This book the first in a three volume set explains general relativity using the mathematical tool of differential geometry The book consists of ten chapters the first five of which introduce differential geometry which is widely applicable even outside the field of relativity Chapter 6 analyzes special relativity using geometric language In turn the last four chapters introduce readers to the fundamentals of general relativity Intended for beginners this volume includes numerous exercises and worked out example in each chapter to facilitate the learning experience Chiefly written for graduate level courses the book s content will also benefit upper level undergraduate students and can be used as a reference guide for practicing theoretical physicists *Spacetime and Geometry* Sean M. Carroll, 2019-08-08 An accessible introductory textbook on general relativity covering the theory s foundations mathematical formalism and major applications Spacetime, Geometry and Gravitation Pankaj Sharan, 2009-11-18 This is an introductory book on the general theory of relativity based partly on lectures given to students of M Sc Physics at my university The book is divided into three parts The rst part is a preliminary course on general relativity with minimum preparation The second part builds the mathematical background and the third part deals with topics where mathematics developed in the second part is needed The rst chapter gives a general background and introduction This is followed by an introduction to curvature through Gauss Theorema Egregium This theorem expresses the curvature of a two dimensional surface in terms of intrinsic quantities related to the infinitesimal distance function on the surface The student is introduced to the metric tensor Christoffel symbols and Riemann curvature tensor by elementary methods in the familiar and visualizable case of two dimensions This early introduction to geometric quantities equips a student to learn simpler topics in general relativity like the Newtonian limit red shift the Schwarzschild solution precession of the perihelion and bending of light in a gravitational field Part II chapters 5 to 10 is an introduction to Riemannian geometry as required by general relativity This is done from the beginning starting with vectors and tensors I believe that students of physics grasp physical concepts better if they are not shaky about the mathematics involved *Differential Geometry and Relativity Theory* Richard L. Faber, 2017-10-19 *Differential Geometry and Relativity Theory* An Introduction approaches relativity as a geometric theory of space and time in which gravity is a manifestation of spacetime curvature rather than a force Uniting differential geometry and both special and general relativity in a single source this easy to understand text opens the general theory of relativity to mathematics majors having a background only in multivariable calculus and linear algebra The book offers a broad overview of the physical foundations and mathematical details of relativity and presents concrete physical interpretations of numerous abstract concepts in Riemannian geometry The work is profusely illustrated with diagrams aiding in the understanding of proofs and explanations Appendices feature important material on vector analysis and hyperbolic functions *Differential Geometry and Relativity Theory* An Introduction serves as the ideal text for high level undergraduate courses in mathematics and physics and includes a solutions manual augmenting classroom study It is an invaluable reference for mathematicians

interested in differential and Riemannian geometry or the special and general theories of relativity

**The Geometry of Special Relativity** Tevian Dray, 2012-07-02 The Geometry of Special Relativity provides an introduction to special relativity that encourages readers to see beyond the formulas to the deeper geometric structure. The text treats the geometry of hyperbolas as the key to understanding special relativity. This approach replaces the ubiquitous symbol of most standard treatments with the appropriate *Spacetime and Geometry* Sean Carroll, 2013-08 Spacetime and Geometry: An Introduction to General Relativity provides a lucid and thoroughly modern introduction to general relativity for advanced undergraduates and graduate students. It introduces modern techniques and an accessible and lively writing style to what can often be a formal and intimidating subject. Readers are led from physics of flat spacetime, special relativity through the intricacies of differential geometry and Einstein's equations and on to exciting applications such as black holes, gravitational radiation, and cosmology. Subtle points are illuminated throughout the text by careful and entertaining exposition. A straightforward and lucid approach balancing mathematical rigor and physical insight are hallmarks of this important text.

**General Relativity** Malcolm Ludvigsen, 1999-05-28 Solutions and hints to selected exercises *From Riemann to Differential Geometry and Relativity* Lizhen Ji, Athanase Papadopoulos, Sumio Yamada, 2017-10-03 This book explores the work of Bernhard Riemann and its impact on mathematics, philosophy, and physics. It features contributions from a range of fields: historical expositions and selected research articles that were motivated by Riemann's ideas and demonstrate their timelessness. The editors are convinced of the tremendous value of going into Riemann's work in depth, investigating his original ideas, integrating them into a broader perspective, and establishing ties with modern science and philosophy. Accordingly, the contributors to this volume are mathematicians, physicists, philosophers, and historians of science. The book offers a unique resource for students and researchers in the fields of mathematics, physics, and philosophy, historians of science, and more generally to a wide range of readers interested in the history of ideas.

[The Geometry of Minkowski Spacetime](#) Gregory L. Naber, 2012-02-02 This book offers a presentation of the special theory of relativity that is mathematically rigorous and yet spells out in considerable detail the physical significance of the mathematics. It treats in addition to the usual menu of topics one is accustomed to finding in introductions to special relativity a wide variety of results of more contemporary origin. These include Zeeman's characterization of the causal automorphisms of Minkowski spacetime, the Penrose theorem on the apparent shape of a relativistically moving sphere, a detailed introduction to the theory of spinors, a Petrov type classification of electromagnetic fields in both tensor and spinor form, a topology for Minkowski spacetime whose homeomorphism group is essentially the Lorentz group, and a careful discussion of Dirac's famous Scissors Problem and its relation to the notion of a two-valued representation of the Lorentz group. This second edition includes a new chapter on the de Sitter universe which is intended to serve two purposes. The first is to provide a gentle prologue to the steps one must take to move beyond special relativity and adapt to the presence of gravitational fields that cannot be considered

negligible The second is to understand some of the basic features of a model of the empty universe that differs markedly from Minkowski spacetime but may be recommended by recent astronomical observations suggesting that the expansion of our own universe is accelerating rather than slowing down The treatment presumes only a knowledge of linear algebra in the first three chapters a bit of real analysis in the fourth and in two appendices some elementary point set topology The first edition of the book received the 1993 CHOICE award for Outstanding Academic Title Reviews of first edition a valuable contribution to the pedagogical literature which will be enjoyed by all who delight in precise mathematics and physics American Mathematical Society 1993 Where many physics texts explain physical phenomena by means of mathematical models here a rigorous and detailed mathematical development is accompanied by precise physical interpretations CHOICE 1993 his talent in choosing the most significant results and ordering them within the book can't be denied The reading of the book is really a pleasure Dutch Mathematical Society 1993 *Spacetime* Marcus Kriele, 2003-07-01 One of the most exciting aspects is the general relativity prediction of black holes and the Such Big Bang predictions gained weight the theorems through Penrose singularity pioneered In various by the books on theorems general relativity singularity are and then presented used to that black holes exist and that the argue universe started with a To date what has big been is bang a critical of what lacking analysis these theorems predict We of really give a proof a typical singul theorem and this ity use theorem to illustrate problems arising through the of possibilities violations and causality weak shell very crossing These singularities add to the problems weight of view that the point theorems alone singularity are not sufficient to the existence of predict physical singularities The mathematical theme of the book In order to both solid gain a of and intuition understanding good for any mathematical theory one should to realise it as model of try a a familiar non mathematical theories have had concept Physical an especially the important on of and impact development mathematics conversely various modern theories physical rather require sophisticated mathematics for their formulation both and mathematics Today physics are so that it is often difficult complex to master the theories in both very s in the of jects However case differential pseudo Riemannian geometry or the general relativity between and mathematics relationship physics is and it is therefore especially close to from interd possible profit an ciplinary approach **The Geometry of Special Relativity - a Concise Course** Norbert Dragon, 2012-08-01 In this concise primer it is shown that with simple diagrams the phenomena of time dilatation length contraction and Lorentz transformations can be deduced from the fact that in a vacuum one cannot distinguish physically straight and uniform motion from rest and that the speed of light does not depend on the speed of either the source or the observer The text proceeds to derive the important results of relativistic physics and to resolve its apparent paradoxes A short introduction into the covariant formulation of electrodynamics is also given This publication addresses in particular students of physics and mathematics in their final undergraduate year **Spacetime and Geometry** Lawrence C. Shepley, Richard Alfred Matzner, 1982 Why is the universe so symmetrical Dennis Sciama Null

congruences and Plebanski Schild spaces Ivor Robinson Linearization stability Dieter Brill Nonlinear model field theories based on harmonic mappings Charles W Misner Gravitational fields in general relativity Roy F Kerr On the potential barriers surrounding the Schwarzschild black hole S Chandrasekhar The initial value problem and beyond James W York Jr and Tsvi Piran     General Relativity Without Calculus Jose Natario,2011-07-30 General Relativity Without Calculus offers a compact but mathematically correct introduction to the general theory of relativity assuming only a basic knowledge of high school mathematics and physics Targeted at first year undergraduates and advanced high school students who wish to learn Einstein's theory beyond popular science accounts it covers the basics of special relativity Minkowski space time non Euclidean geometry Newtonian gravity the Schwarzschild solution black holes and cosmology The quick paced style is balanced by over 75 exercises including full solutions allowing readers to test and consolidate their understanding     *A Mathematical Journey to Relativity* Wladimir-Georges Boskoff,Salvatore Capozziello,2024-05-06 The 2nd edition of this textbook features more than 100 pages of new material including four new chapters as well as an improved discussion of differential geometry concepts and their applications The textbook aims to provide a comprehensive geometric description of Special and General Relativity starting from basic Euclidean geometry to more advanced non Euclidean geometry and differential geometry Readers will learn about the Schwarzschild metric the relativistic trajectory of planets the deflection of light the black holes and the cosmological solutions like de Sitter Friedman Lema tre Robertson Walker and G del ones as well as the implications of each of them for the observed physical world In addition the book provides step by step solutions to problems and exercises making it an ideal introduction for undergraduate students and readers looking to gain a better understanding of Special and General Relativity In this new edition a wide discussion on metric affine theories of gravity and equivalent formulations of General Relativity is reported The aim is presenting also topics which could be useful for PhD students and researchers studying General Relativity from an advanced point of view     **Mathematical Introduction To General Relativity, A (Second Edition)** Amol Sasane,2024-12-20 The book aims to give a mathematical presentation of the theory of general relativity that is spacetime geometry based gravitation theory to advanced undergraduate mathematics students Mathematicians will find spacetime physics presented in the definition theorem proof format familiar to them The given precise mathematical definitions of physical notions help avoiding pitfalls especially in the context of spacetime physics describing phenomena that are counter intuitive to everyday experiences In the first part the differential geometry of smooth manifolds which is needed to present the spacetime based gravitation theory is developed from scratch Here many of the illustrating examples are the Lorentzian manifolds which later serve as spacetime models This has the twofold purpose of making the physics forthcoming in the second part relatable and the mathematics learnt in the first part less dry The book uses the modern coordinate free language of semi Riemannian geometry Nevertheless to familiarise the reader with the useful tool of coordinates for computations and to bridge the gap with the physics literature the link to coordinates is made

through exercises and via frequent remarks on how the two languages are related In the second part the focus is on physics covering essential material of the 20th century spacetime based view of gravity energy momentum tensor field of matter field equation spacetime examples Newtonian approximation geodesics tests of the theory black holes and cosmological models of the universe Prior knowledge of differential geometry or physics is not assumed The book is intended for self study and the solutions to all the 283 exercises are included The second edition corrects errors from the first edition and includes 60 new exercises 10 new remarks 29 new figures some of which cover auxiliary topics that were omitted in the first edition

**Differential Forms and the Geometry of General Relativity** Tevian Dray, 2014-10-20 Requiring little more than calculus and some linear algebra this book provides readers with a coherent path to understanding relativity It helps readers learn just enough differential geometry to grasp the basics of general relativity The first half of the book describes some of the surprising implications of relativity without introducing more formalism than necessary The second half takes a more detailed look at the mathematics of differential forms showing how they are used to describe key geometric ideas in general relativity

Energy And Geometry: An Introduction To Deformed Special Relativity Fabio Cardone, Roberto Mignani, 2004-08-10 This book discusses in detail the mathematical aspects and physical applications of a new geometrical structure of space time It is based on a generalization deformation of the usual Minkowski space supposedly endowed with a metric whose coefficients depend on the energy Energy and Geometry Geometrical Description of Interactions is suitable for researchers academics and students in mathematical and theoretical physics This book has been selected for coverage in CC Physical Chemical Earth Sciences Index to Scientific Book Contents ISBC



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