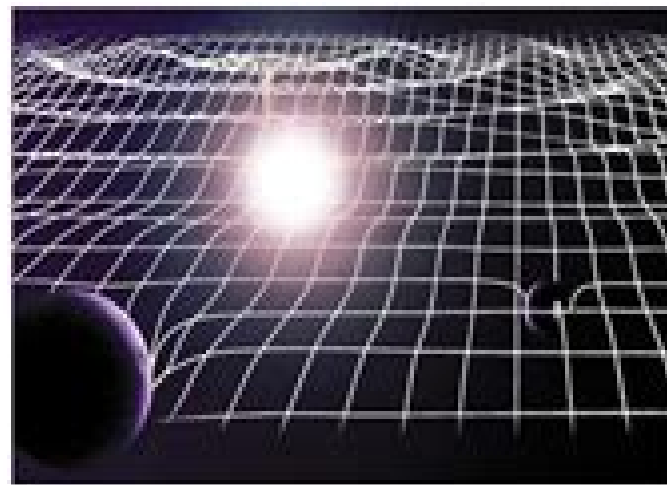


Relativity theory of Einstein did not lead to a mathematical revolution.

It used the tools which were already available:

The geometry of curved space created by Riemann.



Relativity And Geometry

Richard L. Faber



Relativity And Geometry:

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The Geometry of Spacetime Rainer Oloff, 2023-04-21 This book systematically develops the mathematical foundations of the theory of relativity and links them to physical relations For this purpose differential geometry on manifolds is introduced first including differentiation and integration and special relativity is presented as tensor calculus on tangential spaces Using Einstein's field equations relating curvature to matter the relativistic effects in the solar system including black holes are discussed in detail The text is aimed at students of physics and mathematics and assumes only basic knowledge of classical differential and integral calculus and linear algebra

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

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

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.

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.

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 Marcus Kriele, 2003-07-01 One of the most exciting aspects is the general relativity prediction of black holes and the Big Bang. Such predictions gained weight through Penrose's singularity theorems. In various books on general relativity, singularity theorems are presented and used to argue that black holes exist and that the universe started with a bang. To date, what has been a critical of what lacking analysis, these theorems predict. We really give a proof of a typical singularity theorem and then use the theorem to illustrate problems arising through the violation of possibilities and causality. Weak shell crossing singularities add to the problems. The weight of view that the singularity theorems alone are not sufficient to the existence of physical singularities. The mathematical theme of the book is in order to both solidify and gain intuition and understanding good for any mathematical theory, one should realize it as a model of trying a familiar non-mathematical theory. Physical, and especially the important on of and impact development, mathematics conversely various modern theories, physical rather require sophisticated mathematics for their formulation, both in physics and mathematics. Today physics is so that it is often difficult to master the theories in both very subjects. However, case differential pseudo-Riemannian geometry or the general relativity between physics and mathematics relationship, physics is and it is therefore especially close to from interdisciplinary approach.

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 first 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 first 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 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 **Spacetime and Geometry** Sean M. Carroll, 2019

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 *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-Lemaître-Robertson-Walker and Gödel 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 **The Geometry of Minkowski Spacetime** Gregory L. Naber, 2003-01-01 This mathematically rigorous treatment examines Zeeman's characterization of the causal automorphisms of Minkowski spacetime and the Penrose theorem concerning the apparent shape of a relativistically moving sphere Other topics include the construction of a geometric theory of the electromagnetic field an in depth introduction to the theory of spinors and a classification of electromagnetic fields in both tensor and spinor form Appendixes introduce a topology for Minkowski spacetime and discuss Dirac's famous Scissors Problem Appropriate for graduate level courses this text presumes only a knowledge of linear algebra and elementary point set topology 1992 edition 43 figures

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 **Differential Geometry and Relativity Theory** Richard L. Faber, 1983-05-26

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

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

Geometric Relativity Dan A. Lee, 2021-12-20 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 Special Relativity Tevian Dray, 2021-06-10 This unique book presents a particularly beautiful way of looking at special relativity The author encourages students to see beyond the formulas to the deeper structure The unification of space and time introduced by Einstein's special theory of relativity is one of the cornerstones of the modern scientific description of the universe Yet the unification is counterintuitive because we perceive time very differently from space Even in relativity time is not just another dimension it is one with different properties The book treats the geometry of hyperbolas as the key to understanding special relativity The author simplifies the formulas and emphasizes their geometric content Many important relations including the famous relativistic addition formula for velocities then follow directly from the appropriate hyperbolic trigonometric addition formulas Prior mastery of ordinary trigonometry is sufficient for most of the material presented although occasional use is made of elementary differential calculus and the chapter on electromagnetism assumes some more advanced knowledge

Changes to the Second Edition The treatment of Minkowski space and spacetime diagrams has been expanded Several new topics have been added including a geometric derivation of Lorentz transformations a discussion of three dimensional spacetime diagrams and a brief geometric description of area and how it can be used to measure time and distance Minor notational changes were made to avoid conflict with existing usage in the literature

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Tevian Dray is a Professor of Mathematics at Oregon State University His research lies at the interface between mathematics and physics involving differential geometry and general relativity as

well as nonassociative algebra and particle physics he also studies student understanding of middle division mathematics and physics content Educated at MIT and Berkeley he held postdoctoral positions in both mathematics and physics in several countries prior to coming to OSU in 1988 Professor Dray is a Fellow of the American Physical Society for his work in relativity and an award winning teacher **Beyond Einstein** David E. Rowe,Tilman Sauer,Scott A. Walter,2018-06-18
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