Differential Geometry and Relativity

A Volume in Honour of André Lichnerowicz on His 60th Birthday

M. Cahen
M. Flato
editors

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Differential Geometry And Relativity A Volume In Honour Of Andri 1 2 Lichnerowicz On His 60th Birthday Mathematical Physics And Applied Mathematics

M. Cahen,M. Flato

Differential Geometry And Relativity A Volume In Honour Of Andri 1 2 Lichnerowicz On His 60th Birthday Mathematical Physics And Applied Mathematics:

Differential Geometry and Relativity M. Cahen,M. Flato,2012-12-06 On the occasion of the sixtieth birthday of Andre Lichnerowicz a number of his friends many of whom have been his students or coworkers decided to celebrate this event by preparing a jubilee volume of contributed articles in the two main fields of research marked by Lichnerowicz s work namely differential geometry and mathematical physics Limitations of space and time did not enable us to include papers from all Lichnerowicz s friends nor from all his former students It was equally impossible to reflect in a single book the great variety of subjects tackled by Lichnerowicz In spite of these limitations we hope that this book reflects some of the present trends of fields in which he worked and some of the subjects to which he contributed in his long and not yet finished career This career was very much marked by the influence of his masters Elie Cartan who introduced him to research in mathematics mainly in geometry and its relations with mathematical physics and Georges Darmois who developed his interest for mechanics and physics especially the theory of relativity and electromagnetism This par ticular combination and his personal talent made of him a natural scientific heir and continuator of the French mathematical physics school in the tradition of Henri Poincare Some of his works would even be best qualified by a new field name that of physical ma thematics branches of pure mathematics entirely motivated by physics Differential Geometry and Relativity Michel Cahen,Moshé Flato,1976 Pure and Applied Science Books, 1876-1982 ,1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1978 **American Book Publishing Record** ,1978 Applied Differential Geometry and Mechanics Willy Sarlet,Frans Cantrijn,2003 *Differential Geometry and Relativity* M. Cahen,M. Flato,1976-12-31

Differential Geometry and Relativity Theory Richard L. Faber,1983-05-26 Differentilil Geometry and Relativity Theory An Introduction approaches relativity asa geometric theory of space and time in which gravity is a manifestation of space timecurvature rathe1 than a force Uniting differential geometry and both special and generalrelativity in a single source this easy to understand text opens the general theory of relativityto mathematics majors having a backgr ound only in multivariable calculus and linearalgebra The book offers a broad overview of the physical foundations and mathematical details ofrelativity and presents concrete physical interpretations of numerous abstract concepts inRiemannian geometry The work is profusely illustrated with diagrams aiding in the understandingof proofs and explanations Appendices feature important material on vectoranalysis and hyperbolic functions Differential Geometry and Relativity Theory An Introduction

serves as the ideal textfor high level undergraduate couues in mathematics and physics and includes a solutionsmanual augmenting classroom study It is an invaluable reference for mathematicians interestedin differential and IUemannian geometry or the special and general theories ofrelativity *Differential Geometry in Physics* Gabriel Lugo,2021-10-15 Differential Geometry in Physics is a treatment of the mathematical foundations of the theory of general relativity and gauge theory of quantum fields The material is intended to help bridge the gap that often exists between theoretical physics and applied mathematics The approach is to carve an optimal path to learning this challenging field by appealing to the much more accessible theory of curves and surfaces The transition from classical differential geometry as developed by Gauss Riemann and other giants to the modern approach is facilitated by a very intuitive approach that sacrifices some mathematical rigor for the sake of understanding the physics The book features numerous examples of beautiful curves and surfaces often reflected in nature plus more advanced computations of trajectory of particles in black holes Also embedded in the later chapters is a detailed description of the famous Dirac monopole and instantons Features of this book Chapters 1 4 and chapter 5 comprise the content of a one semester course taught by the author for many years The material in the other chapters has served as the foundation for many master s thesis at University of North Carolina Wilmington for students seeking doctoral degrees An open access ebook edition is available at Open UNC https openunc org The book contains over 80 illustrations including a large array of surfaces related to the theory of soliton waves that does not commonly appear in standard mathematical texts on differential geometry **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** Marcus Kriele,2003-07-01 One of the most of exciting aspects is the general relativity pred tion of black holes and the Such Big Bang predictions gained weight the theorems through Penrose singularity pioneered In various by te 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

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Differential Forms and the Geometry of General Relativity Tevian Dray,2014-10-20 Differential Forms and the Geometry of General Relativity provides readers with a coherent path to understanding relativity Requiring little more than calculus and some linear algebra it helps readers learn just enough differential geometry to grasp the basics of general relativity The book contains two intertwined but distinct halves Designed for advanced undergraduate or beginning graduate students in mathematics or physics most of the text requires little more than familiarity with calculus and linear algebra The first half presents an introduction to general relativity that describes some of the surprising implications of relativity without introducing more formalism than necessary This nonstandard approach uses differential forms rather than tensor calculus and minimizes the use of index gymnastics as much as possible The second half of the book takes a more detailed look at the mathematics of differential forms It covers the theory behind the mathematics used in the first half by emphasizing a conceptual understanding instead of formal proofs The book provides a language to describe curvature the key geometric idea in general relativity **The Geometry of Special Relativity** Tevian Dray,2021-06-15 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 Table of Contents Preface 1 Introduction 2 The Physics of Special Relativity 3 Circle Geometry 4 Hyperbola Geometry 5 The Geometry of Special Relativity 6 Applications 7 Problems III 8 Paradoxes 9 Relativistic Mechanics 10 Problems II 11 Relativistic Electromagnetism 12 Problems III 13 Beyond Special Relativity 14 Three Dimensional Spacetime Diagrams 15 Minkowski Area via Light Boxes 16 Hyperbolic Geometry 17 Calculus Bibliography Author Biography 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 **Differential Geometry and Relativity Theory** RichardL Faber,2017 Differentilil Geometry and Relativity Theory An Introduction approaches relativity asa geometric theory of space and time in which gravity is a manifestation of space timecurvature rathe1 than a force Uniting differential geometry and both special and generalrelativity in a single source this easy to understand text opens the general theory of relativityto mathematics majors having a backgr ound only in multivariable calculus and linearalgebra The book offers a broad overview of the physical foundations and mathematical details ofrelativity and presents concrete physical interpretations of numerous abstract concepts inRiemannian geometry The work is profusely illustrated with diagrams aiding in the understandingof proofs and explanations Appendices feature important material on vectoranalysis and hyperbolic functions Differential Geometry and Relativity Theory An Introduction serves as the ideal textfor high level undergraduate couues in mathematics and physics and includes a solutionsmanual augmenting classroom study It is an invaluable reference for mathematicians interestedin differential and

IUemannian geometry or the special and general theories ofrelativity Provided by publisher **Differential Geometry, Differential Equations, and Mathematical Physics** Maria Ulan,Eivind Schneider,2021-02-12 This volume presents lectures given at the Wis a 19 Summer School Differential Geometry Differential Equations and Mathematical Physics which took place from August 19 29th 2019 in Wis a Poland and was organized by the Baltic Institute of Mathematics The lectures were dedicated to symplectic and Poisson geometry tractor calculus and the integration of ordinary differential equations and are included here as lecture notes comprising the first three chapters Following this chapters combine theoretical and applied perspectives to explore topics at the intersection of differential geometry differential equations and mathematical physics Specific topics covered include Parabolic geometry Geometric methods for solving PDEs in physics mathematical biology and mathematical finance Darcy and Euler flows of real gases Differential invariants for fluid and gas flow Differential Geometry Differential Equations and Mathematical Physics is ideal for graduate students and researchers working in these areas A basic understanding of differential geometry is assumed **Modern Differential Geometry in Gauge Theories** Anastasios Mallios,2006-07-27 This is original well written work of interest Presents for the first time physical field theories written in sheaf theoretic language Contains a wealth of minutely detailed rigorous computations ususally absent from standard physical treatments Author s mastery of the subject and the rigorous treatment of this text make it invaluable

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