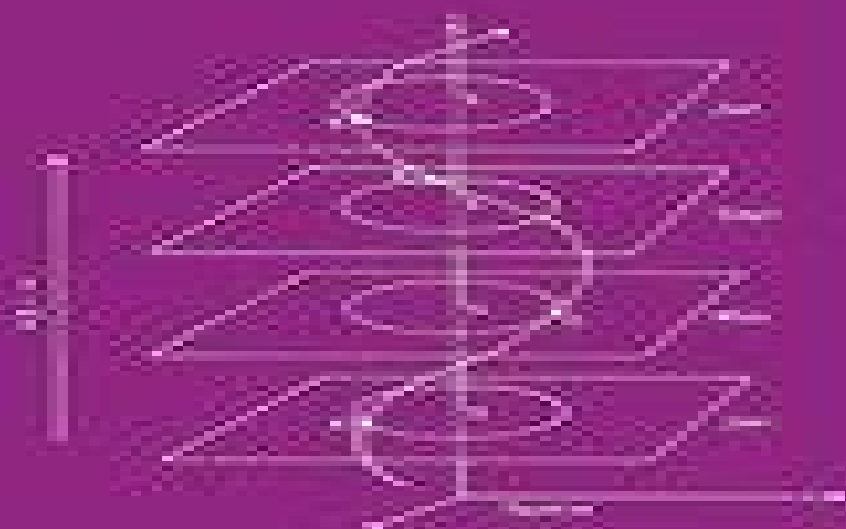




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DIFFERENTIAL GEOMETRY AND RELATIVITY THEORY

An Introduction

Richard L. Faber

Differential Geometry And Relativity Theory An Introduction

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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 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

An Introduction to Differential Geometry Luther Pfahler

Eisenhart, 2014-07 Having introduced a generation of students to the serious mathematics of relativity theory and Riemannian geometry this volume remains a valuable guide to today's advanced undergraduates and graduate students Topics include curves in space transformation of coordinates tensor calculus intrinsic geometry of a surface and surfaces in space 1947 edition

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

An Introduction to General Relativity L. P. Hughston, K. P. Tod, 1990 This textbook provides an introduction to general relativity for mathematics undergraduates or graduate physicists After a review of Cartesian tensor notation and special relativity the concepts of Riemannian differential geometry are introduced More emphasis is placed on an intuitive grasp of the subject and a calculational facility than on a rigorous mathematical exposition General relativity is then presented as a relativistic theory of gravity reducing in the appropriate

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Spacetime Marcus Kriele, 1999-10-19 This textbook is for mathematicians and mathematical physicists and is mainly concerned with the physical justification of both the mathematical framework and the foundations of the theory of general relativity Previous knowledge of the relevant physics is not assumed This book is also suitable as an introduction to pseudo Riemannian geometry with emphasis on geometrical concepts A significant part of the text is devoted to the discussion of causality and singularity theorems The insights obtained are applied to black hole astrophysics thereby making the connection to current active research in mathematical physics and cosmology **Classical**

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conceived for a one semester course in Mathematical Relativity which has been taught at the Instituto Superior Técnico University of Lisbon Portugal since 2010 to Masters and Doctorate students in Mathematics and Physics Mostly self contained and mathematically rigorous this book can be appealing to graduate students in Mathematics or Physics seeking specialization in general relativity geometry or partial differential equations Prerequisites include proficiency in differential geometry and the basic principles of relativity Readers who are familiar with special relativity and have taken a course either in Riemannian geometry for students of Mathematics or in general relativity for those in Physics can benefit from this book

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