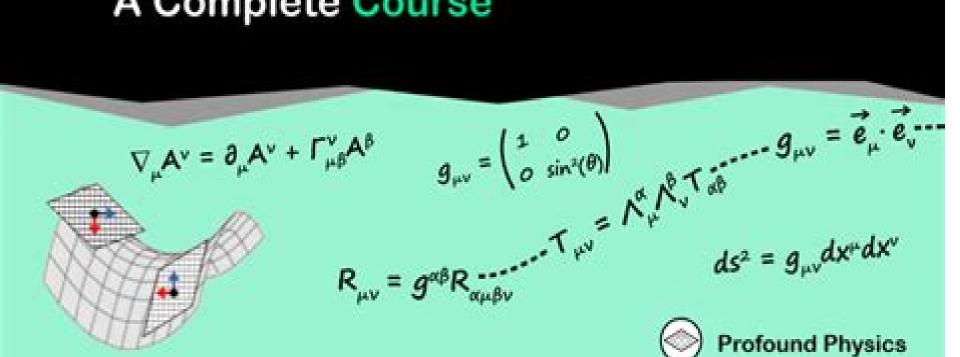
Mathematics of General Relativity

A Complete Course



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Riemannian manifold from the outset Later it was realized that even the pre relativistic particle mechanics and continuum mechanics can be elegantly formulated in terms of tensor analysis in the three dimensional Euclidean space In recent decades relativistic quantum eld theories gauge eld theories and various uni ed eld theories have all used tensor algebra analysis exhaustively This book develops from abstract tensor algebra to tensor analysis in va ous di erentiable manifolds in a mathematically rigorous and logically coherent manner The material is intended mainly for students at the fourth year and fth year university levels and is appropriate for students majoring in either mathematical physics or applied mathematics

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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 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 The Einstein Theory of Relativity Lillian Rosanoff Lieber, 1961 The Special Theory Of Relativity For Mathematics Students Peter Lorimer, 1990-07-05 One of the problems facing mathematics and physics is that mathematicians and physicists speak languages that the others find hard to understand These notes take a fundamental part of physics the special theory of relativity and describe it in terms that can be understood by mathematics students who have studied the two basic undergraduate topics linear algebra and multivariable calculus It gives a full description of the geometry of space time and the foundations of the theory of electromagnetism in terms they are familiar with General Relativity N.M.J. Woodhouse, 2007-03-06 Based on a course taught for years at Oxford this book offers a concise exposition of the central ideas of general relativity The focus is on the chain of reasoning that leads to the relativistic theory from the analysis of distance and time measurements in the presence of gravity rather than on the underlying mathematical structure Includes links to recent developments including theoretical work and observational evidence to encourage further study 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 introducted 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 limits to Newtonian gravity or special relativity The Schwarzchild solution is derived and the gravitational red shift time dilation and classic tests of general relativity are discussed There is a brief account of gravitational collapse and black holes based on the extended Schwarzchild solution Other vacuum solutions are described motivated by their counterparts in linearised general relativity The book ends with chapters on cosmological solutions to the field equations There are exercises attached to each chapter some of which extend the development given in the text **Differential Geometry and Relativity**

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