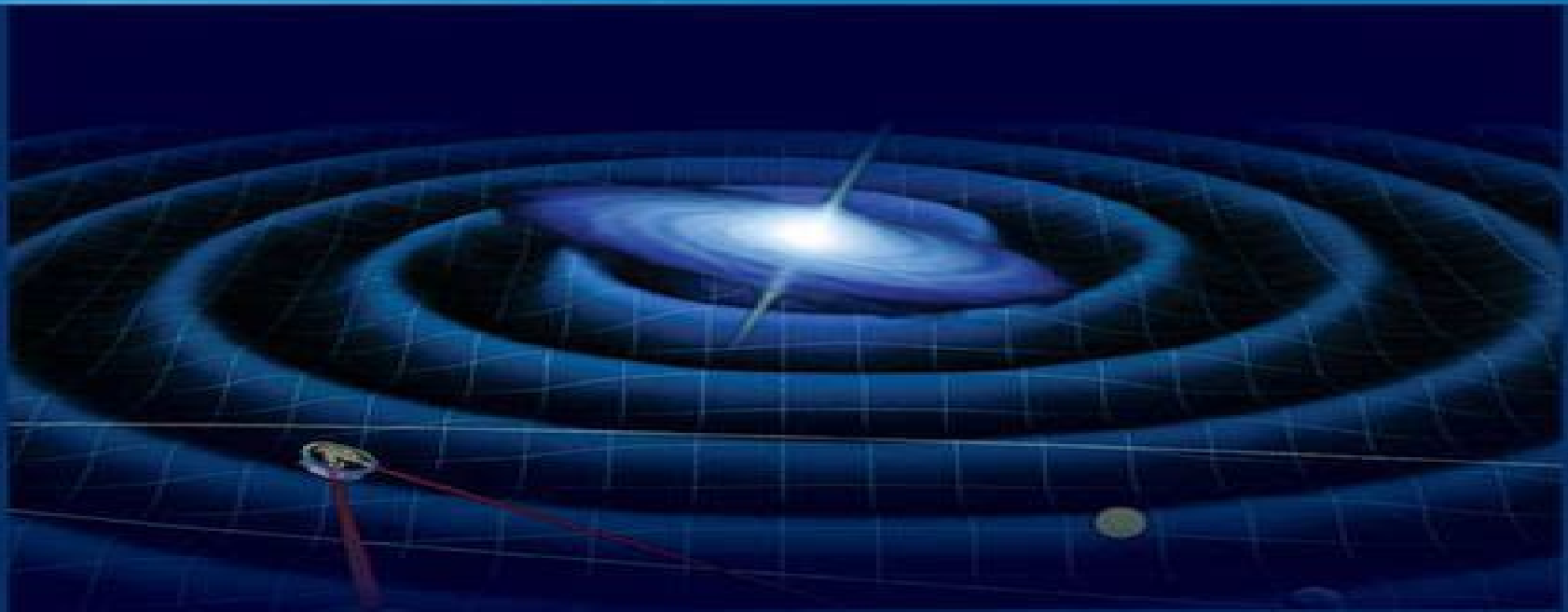


# A GENERAL RELATIVITY WORKBOOK



Thomas A. Moore

# General Relativity Workbook

**Sanjeev Dhurandhar, Sanjit Mitra**



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**General Relativity: The Essentials** Carlo Rovelli, 2021-09-09 In this short book, renowned theoretical physicist and author Carlo Rovelli gives a straightforward introduction to Einstein's General Relativity, our current theory of gravitation. Focusing on conceptual clarity, he derives all the basic results in the simplest way, taking care to explain the physical, philosophical and mathematical ideas at the heart of the most beautiful of all scientific theories. Some of the main applications of General Relativity are also explored, for example, black holes, gravitational waves and cosmology, and the book concludes with a brief introduction to quantum gravity. Written by an author well known for the clarity of his presentation of scientific ideas, this concise book will appeal to university students looking to improve their understanding of the principal concepts, as well as science literate readers who are curious about the real theory of General Relativity at a level beyond a popular science treatment.

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Einstein's General Theory of Relativity Øyvind Grøn, Sigbjørn Hervik, 2007-05-04 This book introduces the general theory of relativity and includes applications to cosmology. The book provides a thorough introduction to tensor calculus and curved manifolds. After the necessary mathematical tools are introduced, the authors offer a thorough presentation of the theory of relativity. Also included are some advanced topics not previously covered by textbooks, including Kaluza-Klein theory, Israel's formalism and branes. Anisotropic cosmological models are also included. The book contains a large number of new exercises and examples, each with separate headings. The reader will benefit from an updated introduction to general relativity, including the most recent developments.

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may have only heard about including the twin paradox black holes and time travel End of chapter exercises span a range of difficulty allowing adventurous readers to stretch their understanding further as desired Students who have studied or are studying relativity at a more mathematical level will also find the book useful for a more conceptual understanding

**A Mathematical Journey to Relativity** Wladimir-Georges Boskoff, Salvatore Capozziello, 2020-06-01 This book opens with an axiomatic description of Euclidean and non Euclidean geometries Euclidean geometry is the starting point to understand all other geometries and it is the cornerstone for our basic intuition of vector spaces The generalization to non Euclidean geometry is the following step to develop the language of Special and General Relativity These theories are discussed starting from a full geometric point of view Differential geometry is presented in the simplest way and it is applied to describe the physical world The final result of this construction is deriving the Einstein field equations for gravitation and spacetime dynamics Possible solutions and their physical implications are also discussed the Schwarzschild metric the relativistic trajectory of planets the deflection of light the black holes the cosmological solutions like de Sitter Friedmann Lema tre Robertson Walker and G del ones Some current problems like dark energy are also sketched The book is self contained and includes details of all proofs It provides solutions or tips to solve problems and exercises It is designed for undergraduate students and for all readers who want a first geometric approach to Special and General Relativity

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**General Relativity and Gravitational Waves** Sanjeev Dhurandhar, Sanjit Mitra, 2022-02-16 This book serves as a textbook for senior undergraduate students who are learning the subject of general relativity and gravitational waves for the first time Both authors have been teaching the course in various forms for a few decades and have designed the book as a one stop book at basic level including derivations and exercises A spectacular prediction of general relativity is gravitational waves Gravitational waves were first detected by the LIGO detectors in 2015 hundred years after their prediction Both authors are part of the LIGO Science Collaboration and were authors on the discovery paper Therefore a strong motivation for this book is to provide the essential concepts of general relativity theory and gravitational waves with their modern applications to students and to researchers who are new to the multi disciplinary field of gravitational wave astronomy One of the advanced topics covered in this book is the fundamentals of gravitational wave data analysis filling a gap in textbooks on general relativity The topic blends smoothly with other chapters in the book not only because of the common area of research but it uses similar differential geometric and algebraic tools that are used in general relativity

General Relativity Norbert Straumann, 2012-10-08 This book provides a completely revised and expanded version of the previous classic edition General Relativity and Relativistic Astrophysics In Part I the foundations of general relativity are thoroughly developed while Part II is devoted to tests of general relativity and many of its applications Binary pulsars our best laboratories for general relativity are studied in considerable detail An introduction to gravitational lensing theory is included as well so as to make the current literature on the subject accessible to readers Considerable attention is devoted to the study of compact objects especially to black holes This includes a detailed derivation of the Kerr solution Israel s proof of his uniqueness theorem and a derivation of the basic laws of black hole physics Part II ends with Witten s proof of the positive energy theorem which is presented in detail together with the required tools on spin structures and spinor analysis In Part III all of the differential geometric tools required are developed in detail A great deal of effort went into refining and improving the text for the new edition New material has been added including a chapter on cosmology The book addresses undergraduate and graduate students in physics astrophysics and mathematics It utilizes a very well structured approach which should help it continue to be a standard work for a modern treatment of gravitational physics The clear presentation of differential geometry also makes it useful for work on string theory and other fields of physics classical as well as quantum

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

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Michael Ruhrländer,2014-10-24 Albert Einstein hat die Allgemeine Relativit tstheorie ART seine Theorie der Schwerkraft 1915 erstmals ver ffentlicht Zu seiner Zeit und auch heute noch gilt die ART insbesondere wegen der mathematisch anspruchsvollen Darstellungen als schwer verstehbar Deshalb ist sie an Universit ten auch erst im fortgeschrittenen Physikstudium Unterrichtsgegenstand Im Gegensatz zu den Standardlehrb chern die ein profundes physikalisches und mathematisches Vorwissen unterstellen bietet das Buch einen einfachen Einstieg in die ART An Vorkenntnissen wird als Minimum nur das vorausgesetzt was man in der Oberstufe von Gymnasien lernt Alles was zum Verst ndnis der Allgemeinen Relativit tstheorie an weiterem Wissen erforderlich ist wird in diesem Buch behutsam und detailliert eingef hrt Das Buch beschreibt die Theorie quantitativ d h in einer mathematischen Formulierung hnlich der in der Einstein sie ver ffentlicht hat Physikstudenten und auch andere naturwissenschaftlich Interessierte finden hier einen leichten und ausf hrlich beschriebenen Zugang zu Einsteins Relativit tstheorien A College Course on Relativity and Cosmology Ta-Pei Cheng,2015

Einstein s general theory of relativity is introduced in this advanced undergraduate textbook Topics covered include geometric formulation of special relativity the principle of equivalence Einstein s field equation and its spherical symmetric solution as well as cosmology **Lectures Notes on Advanced Structured Materials** Holm Altenbach,Michael

Johlitz,Markus Merkel,Andreas Öchsner,2022-12-02 The book on advanced structured materials is designed to facilitate teaching and informal discussion in a supportive and friendly environment The book provides a forum for postgraduate students to present their research results and train their presentation and discussion skills Furthermore it allows for extensive discussion of current research being conducted in the wider area of advanced structured materials Doing so it builds a wider postgraduate community and offers networking opportunities for early career researchers In addition to focused lectures the book provides specialized teaching overview lectures from experienced senior academics The 2022 Postgraduate Seminar entitled Advanced Structured Materials Development Manufacturing Characterization Applications was held from February 28th till March 4th 2022 in Malta The book that presented postgraduate lectures had a strong focus on polymer mechanics composite materials and additive manufacturing Catalog of Copyright Entries. Third Series

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