

On Problems and Solutions of General Relativity (Commemoration of the 100th Anniversary of General Relativity)

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In commemoration of the 100th anniversary of general relativity, many others would look back on its history and achievements, so I will write mine focusing on the problems of general relativity and their solutions.

Pieces of writing hereunder are the rearrangement of my past idea from thesis [1] [2] and postings on my personal blog [3] and science community by focusing on the theme of problems and solutions of general relativity.

I. Several problems of general relativity

Since its publication [4], general theory of relativity has been numerously challenged but time-tested in the process through numerous experiments (Gravitational time dilation and frequency shift, Precession of apses, Gravitational lensing...). [5] [6]

However, the possibility and demand for revised general relativity is also coming to the fore. This arises from its own problem of general relativity or is required from newly found observations. In my eyes, currently, there are three big problems with respect to general relativity.

1) Problems of integration with quantum mechanics and the case of a very big curvature in space-time [5] [7]

2) The theory includes the existence of singularity, which denies the application of general relativity itself, as a solution for field equation. [5]

3) Rising of the problems of dark energy and dark matter [8–13]

I would investigate these problems in reverse order and propose my ideas to work them out or solutions.

II. Problems of dark energy and dark matter

1. Rising of the problems of dark energy and dark matter

To explain the phenomena currently observed from the universe, we assume the need for something unknown called dark matter and dark energy. [8] [9] However, since its quantity is so great (95% level of total mass in the universe) [14] [15] but not detected from our surroundings, [16–18] opinions are coming forth that general relativity should be revised into other forms as to the outside of the solar system.

While the standard model makes up a whole system with its entirety tested through experiments, dark matter is expected not to belong to this standard model. [19] One of the ways to solve this problem is a revision of general relativity.

Accelerated expansion of the universe suggests the existence of new force similar to anti-gravity, which is a result different from the initial expectation of general relativity. [6]

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**Wladimir-Georges Boskoff, Salvatore
Capozziello**



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Problem Book in Relativity and Gravitation Alan P Lightman, William H. Press, Richard H. Price, Saul A. Teukolsky, 2017-09-01 An essential resource for learning about general relativity and much more from four leading experts Important and useful to every student of relativity this book is a unique collection of some 475 problems with solutions in the fields of special and general relativity gravitation relativistic astrophysics and cosmology The problems are expressed in broad physical terms to enhance their pertinence to readers with diverse backgrounds In their solutions the authors have attempted to convey a mode of approach to these kinds of problems revealing procedures that can reduce the labor of calculations while avoiding the pitfall of too much or too powerful formalism Although well suited for individual use the volume may also be used with one of the modern textbooks in general relativity *Problems in the General Theory of Relativity and Theory of Group Representations* N. G. Basov, 2012-12-06 This collection contains survey articles dealing with the following topics The Mach principle and its role in the general theory of relativity the modern conception of the vacuum new methods in the theory of Lie group representations the coherent state method and its application to physical problems and the Newman Penrose method and its application to problems in general relativity theory **Introduction To General Relativity: Solutions To Problems** John Dirk Walecka, 2017-06-16 It is important for every physicist today to have a working knowledge of Einstein's theory of general relativity Introduction to General Relativity published in 2007 was aimed at first year graduate students or advanced undergraduates in physics Only a basic understanding of classical lagrangian mechanics is assumed beyond that the reader should find the material to be self contained The mechanics problem of a point mass constrained to move without friction on a two dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity Special relativity is reviewed The basic principles of general relativity are then presented and the most important applications are discussed The final special topics section takes the reader up to a few areas of current research An extensive set of accessible problems enhances and extends the coverage As a learning and teaching tool this current book provides solutions to those problems This text and solutions manual are meant to provide an introduction to the subject It is hoped that these books will allow the reader to approach the more advanced texts and monographs as well as the continual influx of fascinating new experimental results with a deeper understanding and sense of appreciation **A Short Course in General Relativity** James A. Foster, J. David Nightingale, 2010-04-30 Suitable for a one semester course in general relativity for senior undergraduates or beginning graduate students this text clarifies the mathematical aspects of Einstein's theory of relativity without sacrificing physical understanding The text begins with an exposition of those aspects of tensor calculus and differential geometry needed for a proper treatment of the subject The discussion then turns to the spacetime of general relativity and to geodesic motion A brief consideration of the field equations is followed by a discussion of physics in the vicinity of massive objects including an

elementary treatment of black holes and rotating objects The main text concludes with introductory chapters on gravitational radiation and cosmology This new third edition has been updated to take account of fresh observational evidence and experiments It includes new sections on the Kerr solution in Chapter 4 and cosmological speeds of recession in Chapter 6 A more mathematical treatment of tensors and manifolds included in the 1st edition but omitted in the 2nd edition has been restored in an appendix Also included are two additional appendixes Special Relativity Review and The Chinese Connection and outline solutions to all exercises and problems making it especially suitable for private study *300 Problems in Special and General Relativity* Mattias Blennow, Tommy Ohlsson, 2021-12-09 A textbook neutral problems and solutions book that complements any relativity textbook at advanced undergraduate or masters level *The Cauchy Problem in General Relativity* Hans Ringström, 2009 The general theory of relativity is a theory of manifolds equipped with Lorentz metrics and fields which describe the matter content Einstein's equations equate the Einstein tensor a curvature quantity associated with the Lorentz metric with the stress energy tensor an object constructed using the matter fields In addition there are equations describing the evolution of the matter Using symmetry as a guiding principle one is naturally led to the Schwarzschild and Friedmann Lemaitre Robertson Walker solutions modelling an isolated system and the entire universe respectively In a different approach formulating Einstein's equations as an initial value problem allows a closer study of their solutions This book first provides a definition of the concept of initial data and a proof of the correspondence between initial data and development It turns out that some initial data allow non isometric maximal developments complicating the uniqueness issue The second half of the book is concerned with this and related problems such as strong cosmic censorship The book presents complete proofs of several classical results that play a central role in mathematical relativity but are not easily accessible to those without prior background in the subject Prerequisites are a good knowledge of basic measure and integration theory as well as the fundamentals of Lorentz geometry The necessary background from the theory of partial differential equations and Lorentz geometry is included A Student's Manual for A First Course in General Relativity Robert B. Scott, 2016 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz A First Course in General Relativity and uses detailed solutions cross referenced to several introductory and more advanced textbooks to enable self learners undergraduates and postgraduates to master general relativity through problem solving The perfect accompaniment to Schutz's textbook this manual guides the reader step by step through over 200 exercises with clear easy to follow derivations It provides detailed solutions to almost half of Schutz's exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter It includes a comprehensive index and collects useful mathematical results such as transformation matrices and Christoffel symbols for commonly studied spacetimes in an appendix Supported by an online table categorising exercises a Maple worksheet and an instructors manual this text provides an invaluable resource for all students and instructors using Schutz's textbook Solutions of Some Selected

Problems in General Relativity Ming-Yang Wang, 1974

Pseudo-Complex General Relativity Peter O. Hess, Mirko

Schäfer, Walter Greiner, 2015-10-31 This book explores the role of singularities in general relativity GR. The theory predicts that when a sufficient large mass collapses no known force is able to stop it until all mass is concentrated at a point. The question arises whether an acceptable physical theory should have a singularity not even a coordinate singularity. The appearance of a singularity shows the limitations of the theory. In GR this limitation is the strong gravitational force acting near and at a super massive concentration of a central mass. First a historical overview is given on former attempts to extend GR which includes Einstein himself all with distinct motivations. It will be shown that the only possible algebraic extension is to introduce pseudo complex pc coordinates otherwise for weak gravitational fields non physical ghost solutions appear. Thus the need to use pc variables. We will see that the theory contains a minimal length with important consequences. After that the pc GR is formulated and compared to the former attempts. A new variational principle is introduced which requires in the Einstein equations an additional contribution. Alternatively the standard variational principle can be applied but one has to introduce a constraint with the same former results. The additional contribution will be associated to vacuum fluctuation whose dependence on the radial distance can be approximately obtained using semi classical Quantum Mechanics. The main point is that pc GR predicts that mass not only curves the space but also changes the vacuum structure of the space itself. In the following chapters the minimal length will be set to zero due to its smallness. Nevertheless the pc GR will keep a remnant of the pc description namely that the appearance of a term which we may call dark energy is inevitable. The first application will be discussed in chapter 3 namely solutions of central mass distributions. For a non rotating massive object it is the pc Schwarzschild solution for a rotating massive object the pc Kerr solution and for a charged massive object it will be the Reissner Nordström solution. This chapter serves to become familiar on how to resolve problems in pc GR and on how to interpret the results. One of the main consequences is that we can eliminate the event horizon and thus there will be no black holes. The huge massive objects in the center of nearly any galaxy and the so called galactic black holes are within pc GR still there but with the absence of an event horizon. Chapter 4 gives another application of the theory namely the Robertson Walker solution which we use to model different outcomes of the evolution of the universe. Finally the capability of this theory to predict new phenomena is illustrated.

Introduction To General Relativity John Dirk Walecka, 2007-04-16

A working knowledge of Einstein's theory of general relativity is an essential tool for every physicist today. This self contained book is an introductory text on the subject aimed at first year graduate students or advanced undergraduates in physics that assumes only a basic understanding of classical Lagrangian mechanics. The mechanics problem of a point mass constrained to move without friction on a two dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity. After reviewing special relativity the basic principles of general relativity are presented and the most important applications are discussed. The final special topics section guides the reader through a few

important areas of current research This book will allow the reader to approach the more advanced texts and monographs as well as the continual influx of fascinating new experimental results with a deeper understanding and sense of appreciation

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 Lema tre Robertson Walker and G del 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 General Theory of Relativity Anadijiban Das, Andrew DeBenedictis, 2012-06-26 The General Theory of Relativity A Mathematical Exposition will serve readers as a modern mathematical introduction to the general theory of relativity Throughout the book examples worked out problems and exercises with hints and solutions are furnished Topics in this book include but are not limited to tensor analysis the special theory of relativity the general theory of relativity and Einstein s field equations spherically symmetric solutions and experimental confirmations static and stationary space time domains black holes cosmological models algebraic classifications and the Newman Penrose equations the coupled Einstein Maxwell Klein Gordon equations appendices covering mathematical supplements and special topics Mathematical rigor yet very clear presentation of the topics make this book a unique text for both university students and research scholars Anadijiban Das has taught courses on Relativity Theory at The University College of Dublin Ireland Jadavpur University India Carnegie Mellon University USA and Simon Fraser University Canada His major areas of research include among diverse topics the mathematical aspects of general relativity theory Andrew DeBenedictis has taught courses in Theoretical Physics at Simon Fraser University Canada and is also a member of The Pacific Institute for the Mathematical Sciences His research interests include quantum gravity classical gravity and semi classical gravity

A Short Course in General Relativity J. Foster, 2006 Suitable for a one semester course in general relativity for senior undergraduates or beginning graduate students this text clarifies the mathematical aspects of Einstein s theory of relativity without sacrificing physical understanding The text begins with an exposition of those aspects of tensor calculus and differential geometry needed for a proper treatment of the subject The discussion then turns to the spacetime of general relativity and to geodesic motion A brief consideration of the field equations is followed by

a discussion of physics in the vicinity of massive objects including an elementary treatment of black holes and rotating objects The main text concludes with introductory chapters on gravitational radiation and cosmology This new third edition has been updated to take account of fresh observational evidence and experiments It includes new sections on the Kerr solution in Chapter 4 and cosmological speeds of recession in Chapter 6 A more mathematical treatment of tensors and manifolds included in the 1st edition but omitted in the 2nd edition has been restored in an appendix Also included are two additional appendixes Special Relativity Review and The Chinese Connection And outline solutions to all exercises and problems making it especially suitable for private study

Mathematical Problems of General Relativity I Demetrios Christodoulou, 2008 General relativity is a theory proposed by Einstein in 1915 as a unified theory of space time and gravitation It is based on and extends Newton's theory of gravitation as well as Newton's equations of motion It is thus fundamentally rooted in classical mechanics The theory can be seen as a development of Riemannian geometry itself an extension of Gauss' intrinsic theory of curved surfaces in Euclidean space The domain of application of the theory is astronomical systems One of the mathematical methods analyzed and exploited in the present volume is an extension of Noether's fundamental principle connecting symmetries to conserved quantities This is involved at a most elementary level in the very definition of the notion of hyperbolicity for an Euler-Lagrange system of partial differential equations Another method the study and systematic use of foliations by characteristic null hypersurfaces is in the spirit of Roger Penrose's approach in his incompleteness theorem The methods have applications beyond general relativity to problems in fluid mechanics and more generally to the mechanics and electrodynamics of continuous media The book is intended for advanced students and researchers seeking an introduction to the methods and applications of general relativity

General Relativity Nicola Vittorio, 2025-07-09 This book provides General Relativity problems to be tackled both analytically and symbolically numerically with the Mathematica software In the first case the reader is guided in setting up the appropriate solutions In the second case the reader is provided with very illustrative notebooks to carry out the steps necessary to solve a General Relativity problem These include the calculation of the Christoffel symbols Riemann Ricci Einstein and energy momentum tensors as well as the resolution of the field equations of General Relativity in different astrophysical cosmological contexts with and without the introduction of a cosmological constant This study guide should be used alongside existing textbooks to provide additional learning and engagement opportunities for advanced undergraduate and graduate students in physics and astrophysics taking courses on general relativity It may also be of interest to mathematics students interested in celestial mechanics and space sciences A number of the Mathematica codes used in this book can be accessed online here [INSERT URL WHEN AVAILABLE](#) Key Features Promotes the learning by doing approach guiding the student in the building of the mathematical apparatus necessary to solve problems in General Relativity Encourages the development of analytical skills to address and solve specific and challenging problems in General Relativity Develops

symbolic numerical skills to address problems often already solved analytically so that the reader is prepared to attack even more elaborate calculations in General Relativity

Lectures on General Relativity A. Papapetrou, 2012-12-06 This book is an elaboration of lecture notes for the graduate course on General Relativity given by the author at Boston University in the spring semester of 1972 It is an introduction to the subject only as the time available for the course was limited The author of an introduction to General Relativity is faced from the beginning with the difficult task of choosing which material to include A general criterion assisting in this choice is provided by the didactic character of the book Those chapters have to be included in priority which will be most useful to the reader in enabling him to understand the methods used in General Relativity the results obtained so far and possibly the problems still to be solved This criterion is not sufficient to ensure a unique choice General Relativity has developed to such a degree that it is impossible to include in an introductory textbook of a reasonable length even a very condensed treatment of all important problems which have been discussed until now and the author is obliged to decide in a more or less subjective manner which of the more recent developments to omit The following lines indicate by means of some examples the kind of choice made in this book

Unsolved Problems in Special and General Relativity Florentin Smarandache, Fu Yuhua, Zhao Fengjuan, 2013

The N-Body Problem in General Relativity T. Levi-Civita, 1964 1 IN THE MONOGRAPH SERIES directed by Henri Villat several fascicules have been devoted to Relativity First there are the general presentations of Th De Donder nos 8 14 43 58 and then those more specifically devoted to Einsteinian gravitation notably Georges Darmon's contribution no 25 and that of J Haag no 46 on the Schwarzschild problem The present fascicule takes its place alongside the two latter monographs but it has been conceived and composed in such a way that it may be read and understood by anyone with a knowledge of the principles of Absolute Differential Calculus and of Relativity either from the original expositions of Einstein Weyl or Eddington or in French from Cartan's excellent works for everything having to do with mathematical theories and 3 from Chazy's for Relativity and Celestial Mechanics or naturally from Levi-Civita's The Absolute Differential Calculus first edition London and Glasgow Blackie and Son 1927 where the two original papers written in Italian are brought together namely *Calcolo differenziale assoluto* and *Fondamenti di meccanica relativistica* Bologna Zanichelli As for the present fascicule it is hardly necessary to point out that as its title indicates we seek to establish in the simplest possible terms the relativistic aspect of what Newton and those who followed him regarded as the key to ordinary Celestial Mechanics

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 **General Theory of Relativity** C. W. Kilmister, 2013-10-22 General Theory of Relativity deals with the general theory of relativity and covers topics ranging from the principle of equivalence and the space theory of matter to the hypotheses which lie at the bases of geometry along with the effect of gravitation on the propagation of light The motion of particles in general relativity theory is also discussed This book is comprised of 14 chapters and begins with a review of the principle of equivalence paying particular attention to the question of the existence of inertial frames in Newtonian mechanics The beginnings and foundations of general relativity are then considered together with modern developments in the field Subsequent chapters explore the general notion of multiply extended magnitudes the space theory of matter the effect of gravitation on light propagation gravitational waves and the motion of particles in general relativity theory and homogeneity and covariance An invariant formulation of gravitational radiation theory is also presented The last three chapters examine continued gravitational contraction a spinor approach to general relativity and gravitational red shift in nuclear resonance This monograph will be of interest to physicists and mathematicians

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