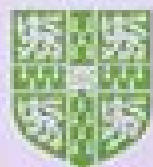


# Exact solutions of Einstein's field equations

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# Exact Solutions Of Einsteins Field Equations

**Barton E. Dahneke**



## **Exact Solutions Of Einsteins Field Equations:**

**Exact Solutions of Einstein's Field Equations** Hans Stephani, Dietrich Kramer, Malcolm MacCallum, Cornelius Hoenselaers, Eduard Herlt, 2009-09-24 A paperback edition of a classic text this book gives a unique survey of the known solutions of Einstein's field equations for vacuum Einstein Maxwell pure radiation and perfect fluid sources It introduces the foundations of differential geometry and Riemannian geometry and the methods used to characterize find or construct solutions The solutions are then considered ordered by their symmetry group their algebraic structure Petrov type or other invariant properties such as special subspaces or tensor fields and embedding properties Includes all the developments in the field since the first edition and contains six completely new chapters covering topics including generation methods and their application colliding waves classification of metrics by invariants and treatments of homothetic motions This book is an important resource for graduates and researchers in relativity theoretical physics astrophysics and mathematics It can also be used as an introductory text on some mathematical aspects of general relativity

**Exact Solutions of Einstein's field equations**, 1980

**Exact Solutions of Einstein's Field Equations** Hans Stephani, Dietrich Kramer, Malcolm MacCallum, Cornelius Hoenselaers, Eduard Herlt, 2009-09-24 A completely revised and updated edition of this classic text covering important new methods and many recently discovered solutions This edition contains new chapters on generation methods and their application classification of metrics by invariants and treatments of homothetic motions and methods from dynamical systems theory It also includes colliding waves inhomogeneous cosmological solutions and spacetimes containing special subspaces

*Exact solutions of Einstein's field equations* Ernst Schmutzer, 1980

**Analysis and Visualization of Exact Solutions to Einstein's Field Equations** Majd Abdelqader, Queen's University (Kingston, Ont.). Department of Physics, Engineering Physics and Astronomy, 2013 Einstein's field equations are extremely difficult to solve and when solved the solutions are even harder to understand In this thesis two analysis tools are developed to explore and visualize the curvature of spacetimes The first tool is based on a thorough examination of observer independent curvature invariants constructed from different contractions of the Riemann curvature tensor These invariants are analyzed through their gradient fields and attention is given to the resulting flow and critical points Furthermore we propose a Newtonian analog to some general relativistic invariants based on the underlying physical meaning of these invariants where they represent the cumulative tidal and frame dragging effects of the spacetime This provides us with a novel and intuitive tool to compare Newtonian gravitational fields to exact solutions of Einstein's field equations on equal footing We analyze the obscure Curzon Chazy solution using the new approach and reveal rich structure that resembles the Newtonian gravitational field of a non rotating ring as it has been suspected for decades Next we examine the important Kerr solution which describes the gravitational field of rotating black holes We discover that the observable part of the geometry outside the black hole's event horizon depends significantly on its angular momentum The fields representing the cumulative tidal and frame dragging

forces change qualitatively at seven specific values of the dimensionless spin parameter of the black hole The second tool we develop in this thesis is the accurate construction of the Penrose conformal diagrams These diagrams are a valuable tool to explore the causal structure of spacetimes where the entire spacetime is compactified to a finite size and the coordinate choice is fixed such that light rays are straight lines on the diagram However for most spacetimes these diagrams can only be constructed as a qualitative guess since their null geodesics cannot be solved We developed an algorithm to construct very accurate Penrose diagrams based on numeric solutions to the null geodesics and applied it to the McVittie metric These diagrams confirmed the long held suspicion that this spacetime does indeed describe a black hole embedded in an isotropic universe

Some exact solutions of Einstein's field equations in empty space T. W. Troughton, 1962

**Group Theory and General Relativity** Moshe Carmeli, 2000 This is the only book on the subject of group theory and Einstein's theory of gravitation It contains an extensive discussion on general relativity from the viewpoint of group theory and gauge fields It also puts together in one volume many scattered original works on the use of group theory in general relativity theory There are twelve chapters in the book The first six are devoted to rotation and Lorentz groups and their representations They include the spinor representation as well as the infinite dimensional representations The other six chapters deal with the application of groups particularly the Lorentz and the  $SL(2, \mathbb{C})$  groups to the theory of general relativity Each chapter is concluded with a set of problems The topics covered range from the fundamentals of general relativity theory its formulation as an  $SL(2, \mathbb{C})$  gauge theory to exact solutions of the Einstein gravitational field equations The important Bondi Metzner Sachs group and its representations conclude the book The entire book is self contained in both group theory and general relativity theory and no prior knowledge of either is assumed The subject of this book constitutes a relevant link between field theoreticians and general relativity theoreticians who usually work rather independently of each other The treatise is highly topical and of real interest to theoretical physicists general relativists and applied mathematicians It is invaluable to graduate students and research workers in quantum field theory general relativity and elementary particle theory

**Einstein's Field Equations and Their Physical Implications** Bernd G. Schmidt, 2008-01-11 This book serves two purposes The authors present important aspects of modern research on the mathematical structure of Einstein's field equations and they show how to extract their physical content from them by mathematically exact methods The essays are devoted to exact solutions and to the Cauchy problem of the field equations as well as to post Newtonian approximations that have direct physical implications Further topics concern quantum gravity and optics in gravitational fields The book addresses researchers in relativity and differential geometry but can also be used as additional reading material for graduate students

*The Large Scale Structure of Space-Time* Stephen W. Hawking, George F. R. Ellis, 2023-02-16 This influential work explores Einstein's General Theory of Relativity and its predictions relating to singularities in space time

**Physics of Complex Systems** Dragutin T. Mihailović, Darko Kapor, Siniša Crvenković, Anja Mihailović, 2023-09-01 This book analyses

the physics of complex systems to elaborate the problems encountered in teaching and research Inspired by the of Kurt G del including his incompleteness theorems it considers the concept of time the idea of models and the concept of complexity before trying to assess the state of physics in general Using both general and practical examples the idea of information is discussed emphasizing its physical interpretation debates ideas in depth using examples and evidence to provide detailed considerations on the topics Based on the authors own research on these topics this book puts forward the idea that the application of information measures can provide new results in the study of complex systems Helpful for those already familiar with the concepts who wish to deepen their critical understanding Physics of Complex Systems will be extremely valuable both for people that are already involved in complex systems and also readers beginning their journey into the subject This work will encourage readers to follow and continue these ideas enabling them to investigate the various topics further

**The Shadow of the Black Hole** John W. Moffat, 2020 The Shadow of the Black Hole shares the entertaining history of black holes

**Exact Space-Times in Einstein's General Relativity** Jerry B. Griffiths, Jiří Podolský, 2009-10-15 Einstein's theory of general relativity is a theory of gravity and as in the earlier Newtonian theory much can be learnt about the character of gravitation and its effects by investigating particular idealised examples This book describes the basic solutions of Einstein's equations with a particular emphasis on what they mean both geometrically and physically Concepts such as big bang and big crunch types of singularities different kinds of horizons and gravitational waves are described in the context of the particular space times in which they naturally arise These notions are initially introduced using the most simple and symmetric cases Various important coordinate forms of each solution are presented thus enabling the global structure of the corresponding space time and its other properties to be analysed The book is an invaluable resource both for graduate students and academic researchers working in gravitational physics

*Superstrings, P-branes and M-theory*,

Literature 1987, Part 2 U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G.

Zech, 2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 44 records literature published in 1987 and received before February 15 1988 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Dr Siegfried B hme retired from his duties as co editor of Astronomy and Astrophysics Abstracts on December 31 1987 Since 1950 he participated in the bibliographic work of the institute He served as a reviewer for the Astronomischer Jahresbericht and became one of the editors of Astronomy and Astrophysics Abstracts in

1969 After his retirement in 1975 he took care of particularly the Russian literature on a voluntary basis for 12 years It is a pleasure to thank Siegfried B hme for his valuable contributions Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Christiane Jehn Ms Monika Kohl Ms Einstein's Legacy Galina Weinstein, 2025-02-05 This book offers a comprehensive exploration into the intertwined realms of Einstein's theory of general relativity the discoveries of black holes and the quantum conundrums that challenge our understanding of the universe It delves into the fascinating journey from the birth of general relativity to the cutting edge debates surrounding black holes wormholes and quantum physics The narrative weaves through the historical milestones including Schwarzschild's 1916 solution the emergence of black holes in theoretical physics and the ongoing quest to reconcile general relativity with quantum mechanics Central to the book is exploring the information paradox and its implications for modern physics shedding light on the profound questions and theoretical challenges that have captivated physicists for decades It also critically examines the ER EPR conjecture a pivotal idea proposed by Leonard Susskind and Juan Maldacena which suggests a deep connection between entangled quantum particles and the structure of spacetime In addition the book engages with contemporary theoretical experiments on wormholes framed within Nancy Cartwright's philosophical theories offering a unique perspective on the reliability and interpretation of these groundbreaking scientific concepts The main topics covered are not only crucial for understanding the universe but also embody the ongoing quest for a unified theory in physics They represent the cutting edge of scientific inquiry where the mysteries of black holes the fabric of spacetime and the perplexities of quantum mechanics converge This book is designed for physicists historians of science and academically inclined readers interested in the evolution of theoretical physics and the groundbreaking ideas that have shaped our understanding of the cosmos It offers a detailed yet accessible narrative making it an invaluable resource for anyone seeking to grasp the complexities and triumphs of modern physics

**The Large Scale Structure of Space-Time** S. W. Hawking, G. F. R. Ellis, 1975-02-27 Einstein's General Theory of Relativity leads to two remarkable predictions first that the ultimate destiny of many massive stars is to undergo gravitational collapse and to disappear from view leaving behind a black hole in space and secondly that there will exist singularities in space time itself These singularities are places where space time begins or ends and the presently known laws of physics break down They will occur inside black holes and in the past are what might be construed as the beginning of the universe To show how these predictions arise the authors discuss the General Theory of Relativity in the large Starting with a precise formulation of the theory and an account of the necessary background of differential geometry the significance of space time curvature is discussed and the global properties of a number of exact solutions of Einstein's field equations are examined The theory of the causal structure of a general space time is developed and is used to study black holes and to prove a number of theorems establishing the inevitability of singularities under certain conditions A discussion of the

Cauchy problem for General Relativity is also included in this 1973 book      *Exact Solutions in Three-Dimensional Gravity* Alberto A. García-Díaz, 2017-08-31 A self contained text systematically presenting the determination and classification of exact solutions in three dimensional Einstein gravity This book explores the theoretical framework and general physical and geometrical characteristics of each class of solutions and includes information on the researchers responsible for their discovery Beginning with the physical character of the solutions these are identified and ordered on the basis of their geometrical invariant properties symmetries and algebraic classifications or from the standpoint of their physical nature for example electrodynamic fields fluid scalar field or dilaton Consequently this text serves as a thorough catalogue on 2 1 exact solutions to the Einstein equations coupled to matter and fields and on vacuum solutions of topologically massive gravity with a cosmological constant The solutions are also examined from different perspectives enabling a conceptual bridge between exact solutions of three and four dimensional gravities and therefore providing graduates and researchers with an invaluable resource on this important topic in gravitational physics      MUS - Mathematimus - Hyperelliptical Geometry Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of pi representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0      *Define Universe and Give Two Examples* Barton E. Dahneke, 2006      **Nuclear Science Abstracts** ,1975-12

## Whispering the Strategies of Language: An Psychological Quest through **Exact Solutions Of Einsteins Field Equations**

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