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Mathematical Theory Of Black Holes

Roger E. Raab, O. L. De Lange



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The Mathematical Theory of Black Holes Subrahmanyan Chandrasekhar, 1998 The theory of black holes is the most simple consequence of Einstein's relativity theory Dealing with relativity theory this book details one of the most beautiful areas of mathematical physics the theory of black holes It represents a personal testament to the work of the author who spent several years working out the subject matter WorldCat

The Mathematical Theory of Black Holes

Subrahmanyan Chandrasekhar, 1983 This volume has become one of the modern classics of relativity theory When it was written in 1983 there was little physical evidence for the existence of black holes Recent discoveries have only served to underscore the elegant theory developed here and the book remains one of the clearest statements of the relevant mathematics

The Mathematical Theory of Black Holes Chandrasekhar, 1993

Mathematical Theory of Black Holes in Higher Dimensions

Petya Nedkova, Stoytcho Yazadjiev, 2024-08-16 This book portrays the mathematical theory which lies behind black hole solutions in spacetimes with an extra dimension Step by step the authors build a comprehensive picture of the main concepts and tools necessary to understand these geometries In this way the book addresses questions like How do we describe black holes in higher dimensions How can we construct such geometries explicitly as exact solutions to the field equations How many independent solutions can exist and how are they classified The book concentrates on five dimensional stationary and axisymmetric spacetimes in electro vacuum and systematically introduces the most important black geometries which can arise in these settings The authors follow the natural progress of the research area by initially describing the first results that were obtained intuitively and sparked interest in the community Then the elaborate mathematical techniques are introduced which allow to systematically construct exact black hole solutions Topics like the integrability of the theory the hidden symmetries of the field equations the available Bäcklund transformations and solution generation techniques based on the inverse scattering method are covered The last part of the book is devoted to uniqueness theorems showing how to classify the black hole spacetimes and distinguish the non equivalent ones The book is not just a mere collection of facts but a methodological description of the most important mathematical techniques and constructions in an active research area The discussion is pedagogical and all the methods are demonstrated on a variety of examples Most of the book is adapted to the level of a graduate student possessing a basic knowledge of general relativity and differential equations and can serve as a practical guide for quickly acquiring the specific concepts and calculation techniques Both authors have contributed to the research area by their original results and share their own experience and perspective

Selected Papers, Volume 6 Subrahmanyan Chandrasekhar, 1991-04-09 This is the first of six volumes collecting significant papers of the distinguished astrophysicist and Nobel laureate S Chandrasekhar His work is notable for its breadth as well as for its brilliance his practice has been to change his focus from time to time to pursue new areas of research The result has been a prolific career full of discoveries and insights some of which are only now being fully appreciated

Chandrasekhar has selected papers that trace the development of his ideas and that present aspects of his work not fully covered in the books he has periodically published to summarize his research in each area The Mathematical Theory of Black Holes Subrahmanyan Chandrasekhar,1992 Now in paperback this book by Nobel prizewinner S Chandrasekhar is devoted to the mathematical theory of the space times surrounding the black holes of nature Since the general theory of relativity provides a single unique family of solutions the Kerr family for black holes the subject is mathematically a very well defined one Besides the analysis discloses a richness rarely encountered in mathematical physics A preliminary chapter provides the basic mathematical tools The principal chapters deal with the Schwarzschild solution describing static spherically symmetric black holes The geometry of these space times is analysed in terms of their geodesics A particular feature of the book is the collection of illustrations exhibiting the various classes of geodesics General Relativity and Gravitation B. Bertotti,F. de Felice,Alessandro Pascolini,2012-12-06 The Tenth International Conference on General Relativity and Gravitation GR10 was held from July 3 to July 8 1983 in Padova Italy These Conferences take place every three years under the auspices of the International Society on General Relativity and Gravitation with the purpose of assessing the current research in the field critically discussing the progress made and disclosing the points of paramount importance which deserve further investigations The Conference was attended by about 750 scientists active in the various subfields in which the current research on gravitation and general relativity is articulated and more than 450 communications were submitted In order to fully exploit this great occurrence of experience and creative capacity and to promote individual contributions to the collective knowledge the Conference was given a structure of workshops on the most active topics and of general sessions in which the Conference was addressed by invited speakers on general reviews or recent major advancements of the field The individual communications were collected in a two volume publication made available to the participants upon their arrival and widely distributed to Scientific Institutions and Research Centres The Mathematical Theory of Black Holes S. Chandrasekhar,1983 **The Mathematical Theory of Cosmic Strings** M.R.

Anderson,2015-05-06 This book is a comprehensive survey of the current state of knowledge about the dynamics and gravitational properties of cosmic strings treated in the idealized classical approximation as line singularities described by the Nambu Goto action The author's purpose is to provide a standard reference to all work that has been published since the mid 1970s Mathematical Theory of Scattering Resonances Semyon Dyatlov,Maciej Zworski,2019-09-10 Scattering resonances generalize bound states eigenvalues for systems in which energy can scatter to infinity A typical resonance has a rate of oscillation just as a bound state does and a rate of decay Although the notion is intrinsically dynamical an elegant mathematical formulation comes from considering meromorphic continuations of Green's functions The poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part An example from mathematics is given by the zeros of the Riemann zeta function

they are essentially the resonances of the Laplacian on the modular surface The Riemann hypothesis then states that the decay rates for the modular surface are all either or An example from physics is given by quasi normal modes of black holes which appear in long time asymptotics of gravitational waves This book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where more general cases are studied It also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds The last two chapters are devoted to semiclassical methods in the study of resonances

Geometry of Black Holes Piotr T. Chruściel, 2020 Black holes present one of the most fascinating predictions of Einstein's general relativity with strong evidence of their existence through observations of many means The book provides a wide background to the current research on all mathematical aspects of the geometry of black hole spacetimes

A Quest for Perspectives Subrahmanyan Chandrasekhar, Kameshwar C. Wali, 2001 This invaluable book presents selected papers of S Chandrasekhar co winner of the Nobel Prize for Physics in 1983 and a scientific giant well known for his prolific and monumental contributions to astrophysics physics and applied mathematics The reader will find here most of Chandrasekhar's articles that led to major developments in various areas of physics and astrophysics There are also articles of a popular and historical nature as well as some hitherto unpublished material based on Chandrasekhar's talks at conferences Each section of the book contains annotations by the editor

Nonperturbative Quantum Field Theory G. Hooft, A. Jaffe, G. Mack, P.K. Mitter, R. Stora, 2012-12-06 During the past 15 years quantum field theory and classical statistical mechanics have merged into a single field and the need for nonperturbative methods for the description of critical phenomena in statistical mechanics as well as for problems in elementary particle physics are generally acknowledged Such methods formed the central theme of the 1987 Cargèse Advanced Study Institute on Nonperturbative Quantum Field Theory The use of conformal symmetry has been of central interest in recent years and was a main subject at the ASI Conformal invariant quantum field theory describes statistical mechanical systems exactly at a critical point and can be analysed to a remarkable extent by group theoretical methods Very strong results have been obtained for 2 dimensional systems Conformal field theory is also the basis of string theory which offers some hope of providing a unified theory of all interactions between elementary particles Accordingly a number of lectures and seminars were presented on these two topics After systematic introductory lectures conformal field theory on Riemann surfaces orbifolds sigma models and application of loop group theory and Grassmannians were discussed and some ideas on modular geometry were presented Other lectures combined traditional techniques of constructive quantum field theory with new methods such as the use of index theorems and infinite dimensional Kac Moody symmetry groups The problems encountered in a quantum mechanical description of black holes were discussed in detail

Spectral Theory of Block Operator Matrices and Applications Christiane Tretter, 2008 This book presents new concepts in operator theory and covers classes of operators in particular non selfadjoint operators which exhibit various interesting phenomena Special

attention is paid to applications in many areas of mathematical physics including quantum mechanics fluid mechanics and magnetohydrodynamics The author also discusses an operator theoretic approach to spectral problems for linear operators admitting a certain block structure The results apply to bounded or finite dimensional operators like block matrices as well to unbounded operators describing systems of differential equations New concepts of numerical range are developed

Further Advances in Twistor Theory L.J. Mason, L.P. Hughston, P.Z. Kobak, 2023-05-31 Twistor theory is the remarkable mathematical framework that was discovered by Roger Penrose in the course of research into gravitation and quantum theory It has since developed into a broad many faceted programme that attempts to resolve basic problems in physics by encoding the structure of physical fields and indeed space time itself into the complex analytic geometry of twistor space Twistor theory has important applications in diverse areas of mathematics and mathematical physics These include powerful techniques for the solution of nonlinear equations in particular the self duality equations both for the Yang Mills and the Einstein equations new approaches to the representation theory of Lie groups and the quasi local definition of mass in general relativity to name but a few This volume and its companions comprise an abundance of new material including an extensive collection of Twistor Newsletter articles written over a period of 15 years These trace the development of the twistor programme and its applications over that period and offer an overview on the current status of various aspects of that programme The articles have been written in an informal and easy to read style and have been arranged by the editors into chapter supplemented by detailed introductions making each volume self contained and accessible to graduate students and non specialists from other fields Volume II explores applications of flat twistor space to nonlinear problems It contains articles on integrable or soluble nonlinear equations conformal differential geometry various aspects of general relativity and the development of Penrose's quasi local mass construction *The Universe* Britannica Educational Publishing, 2009-10-01 The universe has been both a subject of study and supplier of fresh mysteries This book tackles a topic that is infinitely broad with extreme precision and careful organization bringing the far reaches of the universe squarely into the hands and minds of readers *Advanced Concepts in Particle and Field Theory* Tristan Hübsch, 2023-02-09 This 2015 advanced textbook now OA provides students with a unified understanding of all matter at a fundamental level **Great Physicists** William H. Cropper, 2004 Presents profiles of thirty scientists including Isaac Newton Michael Faraday Albert Einstein Marie Curie Richard Feynman and Edwin Hubble **Superstrings, P-branes and M-theory**, *Multipole Theory in Electromagnetism* Roger E. Raab, O. L. De Lange, 2005 Multipole theory provides a powerful way of characterising the electromagnetic behaviour of a medium be it microscopic or macroscopic This text describes the concept of multipole theory as well as its successes and failures in applications to transmission scattering and reflection

This book delves into Mathematical Theory Of Black Holes. Mathematical Theory Of Black Holes is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mathematical Theory Of Black Holes, encompassing both the fundamentals and more intricate discussions.

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6. In chapter 5, this book will draw a conclusion about Mathematical Theory Of Black Holes. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mathematical Theory Of Black Holes.

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