

Advanced general relativity

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Advanced General Relativity Cambridge Monographs On Mathematical Physics

Bernard Schutz



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Advanced General Relativity John Stewart, John M. Stewart, 1993-11-26 A self contained introduction to advanced general relativity

Beyond the Standard Model Cocktail Yann Gouttenoire, 2023-01-01 This book provides a remarkable and complete survey of important questions at the interface between theoretical particle physics and cosmology After discussing the theoretical and experimental physics revolution that led to the rise of the Standard Model in the past century the author reviews all the major open puzzles among them the hierarchy problem the small value of the cosmological constant the matter antimatter asymmetry and the dark matter enigma including the state of the art regarding proposed solutions Also addressed are the rapidly expanding fields of thermal dark matter cosmological first order phase transitions and gravitational wave signatures In addition the book presents the original and interdisciplinary PhD research work of the author relating to Weakly Interacting Massive Particles around the TeV scale which are among the most studied dark matter candidates Motivated by the absence of experimental evidence for such particles this thesis explores the possibility that dark matter is much heavier than what is conventionally assumed

Springer Handbook of Spacetime Abhay Ashtekar, Vesselin Petkov, 2014-09-01 The Springer Handbook of Spacetime is dedicated to the ground breaking paradigm shifts embodied in the two relativity theories and describes in detail the profound reshaping of physical sciences they ushered in It includes in a single volume chapters on foundations on the underlying mathematics on physical and astrophysical implications experimental evidence and cosmological predictions as well as chapters on efforts to unify general relativity and quantum physics The Handbook can be used as a desk reference by researchers in a wide variety of fields not only by specialists in relativity but also by researchers in related areas that either grew out of or are deeply influenced by the two relativity theories cosmology astronomy and astrophysics high energy physics quantum field theory mathematics and philosophy of science It should also serve as a valuable resource for graduate students and young researchers entering these areas and for instructors who teach courses on these subjects The Handbook is divided into six parts Part A Introduction to Spacetime Structure Part B Foundational Issues Part C Spacetime Structure and Mathematics Part D Confronting Relativity theories with observations Part E General relativity and the universe Part F Spacetime beyond Einstein

Global Lorentzian Geometry John K. Beem, 2017-09-29 Bridging the gap between modern differential geometry and the mathematical physics of general relativity this text in its second edition includes new and expanded material on topics such as the instability of both geodesic completeness and geodesic incompleteness for general space times geodesic connectibility the generic condition the sectional curvature function in a neighbourhood of degenerate two plane and proof of the Lorentzian Splitting Theorem Five or more copies may be ordered by college or university stores at a special student price available on request

Introducing Einstein's Relativity Ray D'Inverno, James Vickers, 2022 There is little doubt that Einstein's theory of relativity captures the imagination Not only has it radically altered the way we view the universe but the theory also has a

considerable number of surprises in store This is especially so in the three main topics of current interest that this book reaches namely black holes gravitational waves and cosmology The main aim of this textbook is to provide students with a sound mathematical introduction coupled to an understanding of the physical insights needed to explore the subject Indeed the book follows Einstein in that it introduces the theory very much from a physical point of view After introducing the special theory of relativity the basic field equations of gravitation are derived and discussed carefully as a prelude to first solving them in simple cases and then exploring the three main areas of application This new edition contains a substantial extension content that considers new and updated developments in the field Topics include coverage of the advancement of observational cosmology the detection of gravitational waves from colliding black holes and neutron stars and advancements in modern cosmology Einstein's theory of relativity is undoubtedly one of the greatest achievements of the human mind Yet in this book the author makes it possible for students with a wide range of abilities to deal confidently with the subject Based on both authors experience teaching the subject this is achieved by breaking down the main arguments into a series of simple logical steps Full details are provided in the text and the numerous exercises while additional insight is provided through the numerous diagrams As a result this book makes an excellent course for any reader coming to the subject for the first time while providing a thorough understanding for any student wanting to go on to study the subject in depth

Probabilistic Models of Cosmic Backgrounds Anatoliy Malyarenko, 2024-06-30 Combining research methods from various areas of mathematics and physics Probabilistic Models of Cosmic Backgrounds describes the isotropic random sections of certain fiber bundles and their applications to creating rigorous mathematical models of both discovered and hypothetical cosmic backgrounds Previously scattered and hard to find mathematical and physical theories have been assembled from numerous textbooks monographs and research papers and explained from different or even unexpected points of view This consists of both classical and newly discovered results necessary for understanding a sophisticated problem of modelling cosmic backgrounds The book contains a comprehensive description of mathematical and physical aspects of cosmic backgrounds with a clear focus on examples and explicit calculations Its reader will bridge the gap of misunderstanding between the specialists in various theoretical and applied areas who speak different scientific languages The audience of the book consists of scholars students and professional researchers A scholar will find basic material for starting their own research A student will use the book as supplementary material for various courses and modules A professional mathematician will find a description of several physical phenomena at the rigorous mathematical level A professional physicist will discover mathematical foundations for well known physical theories

Relativity and Gravitation Jiří Bičák, Tomáš Ledvinka, 2014-06-06 In early April 1911 Albert Einstein arrived in Prague to become full professor of theoretical physics at the German part of Charles University It was there for the first time that he concentrated primarily on the problem of gravitation Before he left Prague in July 1912 he had submitted the paper Relativit t und Gravitation Erwiderung auf eine

Bemerkung von M Abraham in which he remarkably anticipated what a future theory of gravity should look like At the occasion of the Einstein in Prague centenary an international meeting was organized under a title inspired by Einstein s last paper from the Prague period Relativity and Gravitation 100 Years after Einstein in Prague The main topics of the conference included classical relativity numerical relativity relativistic astrophysics and cosmology quantum gravity experimental aspects of gravitation and conceptual and historical issues The conference attracted over 200 scientists from 31 countries among them a number of leading experts in the field of general relativity and its applications This volume includes abstracts of the plenary talks and full texts of contributed talks and articles based on the posters presented at the conference These describe primarily original results of the authors Full texts of the plenary talks are included in the volume General Relativity Cosmology and Astrophysics Perspectives 100 Years after Einstein in Prague eds J Bi k and T Ledvinka published also by Springer Verlag **Advances in Theoretical and Mathematical Physics** ,2002 Advanced General Relativity John Stewart,1997 General Relativity M. P. Hobson,G. P. Efstathiou,A. N. Lasenby,2006-02-02 General Relativity An Introduction for Physicists provides a clear mathematical introduction to Einstein s theory of general relativity It presents a wide range of applications of the theory concentrating on its physical consequences After reviewing the basic concepts the authors present a clear and intuitive discussion of the mathematical background including the necessary tools of tensor calculus and differential geometry These tools are then used to develop the topic of special relativity and to discuss electromagnetism in Minkowski spacetime Gravitation as spacetime curvature is then introduced and the field equations of general relativity derived After applying the theory to a wide range of physical situations the book concludes with a brief discussion of classical field theory and the derivation of general relativity from a variational principle Written for advanced undergraduate and graduate students this approachable textbook contains over 300 exercises to illuminate and extend the discussion in the text **General Relativity** Norbert Straumann,2013-11-11 The foundations are thoroughly developed together with the required mathematical background from differential geometry developed in Part III The author also discusses the tests of general relativity in detail including binary pulsars with much space is devoted to the study of compact objects especially to neutron stars and to the basic laws of black hole physics This well structured text and reference enables readers to easily navigate through the various sections as best matches their backgrounds and perspectives whether mathematical physical or astronomical Very applications oriented the text includes very recent results such as the supermassive black hole in our galaxy and first double pulsar system Introduction to General Relativity Lewis H. Ryder,2009 Student friendly well illustrated textbook for advanced undergraduate and beginning graduate students in physics and mathematics **Notices of the American Mathematical Society** American Mathematical Society,1992 *Gravity and Strings* Tomás Ortín,2004-03-25 One appealing feature of string theory is that it provides a theory of quantum gravity Gravity and Strings is a self contained pedagogical exposition of this theory its foundations and its basic

results In Part I the foundations are traced back to the very early special relativistic field theories of gravity showing how such theories lead to general relativity Gauge theories of gravity are then discussed and used to introduce supergravity theories In Part II some of the most interesting solutions of general relativity and its generalizations are studied The final Part presents and studies string theory from the effective action point of view using the results found earlier in the book as background This 2004 book will be useful as a reference book for graduate students and researchers as well as a complementary textbook for courses on gravity supergravity and string theory

A First Course in General Relativity Bernard Schutz, 2022-06-30 Clarity readability and rigor combine in the third edition of this widely used textbook to provide the first step into general relativity for advanced undergraduates with a minimal background in mathematics Topics within relativity that fascinate astrophysics researchers and students alike are covered with Schutz's characteristic ease and authority from black holes to relativistic objects from pulsars to the study of the Universe as a whole This third edition contains discoveries by astronomers that require general relativity for their explanation two chapters on gravitational waves including direct detections of gravitational waves and their observations impact on cosmological measurements new information on black holes and neutron stars and greater insight into the expansion of the Universe Over 300 exercises many new to this edition give students the confidence to work with general relativity and the necessary mathematics while the informal writing style and worked examples make the subject matter easily accessible

A Student's Guide to General Relativity Norman Gray, 2019-01-03 Vectors tensors and functions Manifolds vectors and differentiation Energy momentum and Einstein's equations [American Journal of Physics](#), 1993 [General Theory of Relativity](#) P. A.M. Dirac, 1996-01-28 Einstein's general theory of relativity requires a curved space for the description of the physical world If one wishes to go beyond superficial discussions of the physical relations involved one needs to set up precise equations for handling curved space The well established mathematical technique that accomplishes this is clearly described in this classic book by Nobel Laureate P A M Dirac Based on a series of lectures given by Dirac at Florida State University and intended for the advanced undergraduate General Theory of Relativity comprises thirty five compact chapters that take the reader point by point through the necessary steps for understanding general relativity

Aslib Book Guide, 1992 *Fundamental Interactions and Twistor-like Methods* Jerzy Lukierski, Dmitri Sorokin, 2005-06-16 All papers were peer reviewed The volume contains reports on work done in areas of field theory supersymmetry string theory higher spins and related topics using group theoretical and geometrical methods which involve one way or another twistor like techniques singletons harmonics superembeddings and twistors themselves

The Top Books of the Year Advanced General Relativity Cambridge Monographs On Mathematical Physics The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. Advanced General Relativity Cambridge Monographs On Mathematical Physics : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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