

The Scalar–Tensor Theory of Gravitation

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ON MATHEMATICAL PHYSICS

Scalar Tensor Theory Of Gravitation

Wolfgang Arendt, Wolfgang P. Schleich



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The Scalar-Tensor Theory of Gravitation Yasunori Fujii, Kei-ichi Maeda, 2003-01-02 The scalar tensor theory of gravitation is one of the most popular alternatives to Einstein's theory of gravitation. This book provides a clear and concise introduction to the theoretical ideas and developments exploring scalar fields and placing them in context with a discussion of Brans-Dicke theory. Topics covered include the cosmological constant problem, time variability of coupling constants, higher dimensional space-time, branes and conformal transformations. The authors emphasize the physical applications of the scalar tensor theory and thus provide a pedagogical overview of the subject, keeping more mathematically detailed sections for the appendices. This book is suitable for graduate courses in cosmology, gravitation and relativity. It will also provide a valuable reference for researchers.

Towards a Mass-Variables Scalar Tensor Theory of Gravitation and Inertia Franklin S. Felber, 1972 **Astrophysical Consequences of the Scalar-tensor Theory of Gravitation** Ralph Edward

Morganstern, 1968 *Cosmology in Scalar-Tensor Gravity* Valerio Faraoni, 2004-03-31 *Cosmology in Scalar Tensor Gravity* covers all aspects of cosmology in scalar tensor theories of gravity. Considerable progress has been made in this exciting area of physics and this book is the first to provide a critical overview of the research. Among the topics treated are Scalar tensor gravity and its limit to general relativity, Effective energy momentum tensors and conformal frames, Gravitational waves in scalar tensor cosmology, Specific scalar tensor theories, Exact cosmological solutions and cosmological perturbations, Scalar tensor scenarios of the early universe and inflation, Scalar tensor models of quintessence in the present universe and their far reaching consequences for the ultimate fate of the cosmos.

On an Extended Scalar-tensor Theory of Gravitation M. Borneas, 1984 *A Scalar-tensor Theory of Gravitation Compatible with Mach's Principle* David Hale Wycherley, 1973

Mach's Principle in the Scalar Tensor Theory of Gravity Edward Thomas Toton, 1969 **Equations of Motion in**

Relativistic Gravity Dirk Puetzfeld, Claus Lämmerzahl, Bernard Schutz, 2015-06-01 The present volume aims to be a comprehensive survey on the derivation of the equations of motion both in General Relativity as well as in alternative gravity theories. The topics covered range from the description of test bodies to self-gravitating heavy bodies to current and future observations. Emphasis is put on the coverage of various approximation methods, e.g. multipolar post-Newtonian self-force methods which are extensively used in the context of the relativistic problem of motion. Applications discussed in this volume range from the motion of binary systems and the gravitational waves emitted by such systems to observations of the galactic center. In particular, the impact of choices at a fundamental theoretical level on the interpretation of experiments is highlighted. This book provides a broad and up-to-date status report which will not only be of value for the experts working in this field but also may serve as a guideline for students with background in General Relativity who like to enter this field.

Nonsymmetric Fields Theory And Its Applications M W Kalinowski, 1990-10-27 The book is devoted to a unification of two major principles of invariance in physics: local gauge and local coordinate invariance, and reducing both principles to

the second one in a more than 4 dimensional world The additional dimensions cannot be directly observed Thus it is akin to a Kaluza Klein or Jordan Thiry point of view The author develops these ideas using nonriemannian geometry from Einstein s Unified Field Theory The theory uses nonsymmetric right invariant metric defined on a principal fibre bundle a gauge bundle The book proceeds in three stages Interference effects between gravity described by NGT and gauge field including electromagnetic field which appeared due to nonriemannian geometry in the theory and its physical consequences were discovered Some applications have been pointed out [Modifications of Einstein's Theory of Gravity at Large Distances](#) Eleftherios Papantonopoulos,2014-11-04 In the last few years modified gravity theories have been proposed as extensions of Einstein s theory of gravity Their main motivation is to explain the latest cosmological and astrophysical data on dark energy and dark matter The study of general relativity at small scales has already produced important results cf e g LNP 863 Quantum Gravity and Quantum Cosmology while its study at large scales is challenging because recent and upcoming observational results will provide important information on the validity of these modified theories In this volume various aspects of modified gravity at large scales will be discussed high curvature gravity theories general scalar tensor theories Galileon theories and their cosmological applications F R gravity theories massive new massive and topologically massive gravity Chern Simons modifications of general relativity including holographic variants and higher spin gravity theories to name but a few of the most important recent developments Edited and authored by leading researchers in the field and cast into the form of a multi author textbook at postgraduate level this volume will be of benefit to all postgraduate students and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research [Singular Null Hypersurfaces In General Relativity: Light-like Signals From Violent Astrophysical Events](#) Peter A Hogan,Claude Barrabes,2004-02-03 This book presents a comprehensive and self contained exposition of the mathematical theory of impulsive light like signals in general relativity Applications are provided in relativistic astrophysics cosmology and alternative theories of gravity deduced from string theory Cataclysmic astrophysical events give rise to impulsive light like signals which can generally be decomposed into a thin shell of null matter and an impulsive gravitational wave Several examples are considered in black hole physics wave collisions and light like boosts of compact gravitating sources Graduate students and researchers in relativistic astrophysics cosmology and string theory will find this book very useful *Nuclear Science Abstracts* ,1976-03 *Classical and Quantum Cosmology* Gianluca Calcagni,2017-01-06 This comprehensive textbook is devoted to classical and quantum cosmology with particular emphasis on modern approaches to quantum gravity and string theory and on their observational imprint It covers major challenges in theoretical physics such as the big bang and the cosmological constant problem An extensive review of standard cosmology the cosmic microwave background inflation and dark energy sets the scene for the phenomenological application of all the main quantum gravity and string theory models of cosmology Born of the author s teaching experience and commitment to bridging the gap between

cosmologists and theoreticians working beyond the established laws of particle physics and general relativity this is a unique text where quantum gravity approaches and string theory are treated on an equal footing As well as introducing cosmology to undergraduate and graduate students with its pedagogical presentation and the help of 45 solved exercises this book which includes an ambitious bibliography of about 3500 items will serve as a valuable reference for lecturers and researchers

Theory Sergei M. Kopeikin, 2014-10-10 Relativistic celestial mechanics investigating the motion celestial bodies under the influence of general relativity is a major tool of modern experimental gravitational physics With a wide range of prominent authors from the field this two volume series consists of reviews on a multitude of advanced topics in the area of relativistic celestial mechanics starting from more classical topics such as the regime of asymptotically flat spacetime light propagation and celestial ephemerides but also including its role in cosmology and alternative theories of gravity as well as modern experiments in this area This first volume of a two volume series is concerned with theoretical foundations such as post Newtonian solutions to the two body problem light propagation through time dependent gravitational fields as well as cosmological effects on the movement of bodies in the solar systems On the occasion of his 80 th birthday these two volumes honor V A Brumberg one of the pioneers in modern relativistic celestial mechanics Contributions include M Soffel On the DSX framework T Damour The general relativistic two body problem G Schafer Hamiltonian dynamics of spinning compact binaries through high post Newtonian approximations A Petrov and S Kopeikin Post Newtonian approximations in cosmology T Futamase On the backreaction problem in cosmology Y Xie and S Kopeikin Covariant theory of the post Newtonian equations of motion of extended bodies S Kopeikin and P Korobkov General relativistic theory of light propagation in multipolar gravitational fields

Mathematical Analysis of Evolution, Information, and Complexity Wolfgang

Arendt, Wolfgang P. Schleich, 2009-07-10 Mathematical Analysis of Evolution Information and Complexity deals with the analysis of evolution information and complexity The time evolution of systems or processes is a central question in science this text covers a broad range of problems including diffusion processes neuronal networks quantum theory and cosmology Bringing together a wide collection of research in mathematics information theory physics and other scientific and technical areas this new title offers elementary and thus easily accessible introductions to the various fields of research addressed in the book

Literature 1984, Part 1 S. Böhme, Prof. Dr. Walter Fricke, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmädel, G. Zech, 2013-11-11 Gravity Eric Poisson, Clifford M. Will, 2014-05-29 This textbook explores approximate solutions to general relativity and their consequences It offers a unique presentation of Einstein's theory by developing powerful methods that can be applied to astrophysical systems Beginning with a uniquely thorough treatment of Newtonian gravity the book develops post Newtonian and post Minkowskian approximation methods to obtain weak field solutions to the Einstein field equations The book explores the motion of self gravitating bodies the physics of gravitational waves and the impact of radiative losses on gravitating systems It concludes with a brief overview of alternative theories of

gravity Ideal for graduate courses on general relativity and relativistic astrophysics the book examines real life applications such as planetary motion around the Sun the timing of binary pulsars and gravitational waves emitted by binary black holes Text boxes explore related topics and provide historical context and over 100 exercises present challenging tests of the material covered in the main text **Time and Gravitational Field** Ilija Barukcic,2022 **Literature 1989, Part 1**

Astronomisches Rechen-Institut,2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Review Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine **Metrology: from Physics Fundamentals to Quality of**

Life P. Tavella,M.J.T. Milton,M. Inguscio,2018-01-03 Metrology is a constantly evolving field and one which has developed in many ways in the last four decades This book presents the proceedings of the Enrico Fermi Summer School on the topic of Metrology held in Varenna Italy from 26 June to 6 July 2017 This was the 6th Enrico Fermi summer school devoted to metrology the first having been held in 1976 The 2017 program addressed two major new directions for metrology the work done in preparation for a possible re definition of four of the base units of the SI in 2018 and the impact of the application of metrology to issues addressing quality of life such as global climate change and clinical and food analysis on science citizens and society The lectures were grouped into three modules metrology for quality of life fundamentals of metrology and physical metrology and fundamental constants and topics covered included food supply and safety biomarkers monitoring climate and air quality new SI units measurement uncertainty fundamental constants electrical metrology optical frequency standards and photometry and light metrology The book provides an overview of the topics and changes relevant to metrology today and will be of interest to both academics and all those whose work involves any of the various aspects of this field

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