

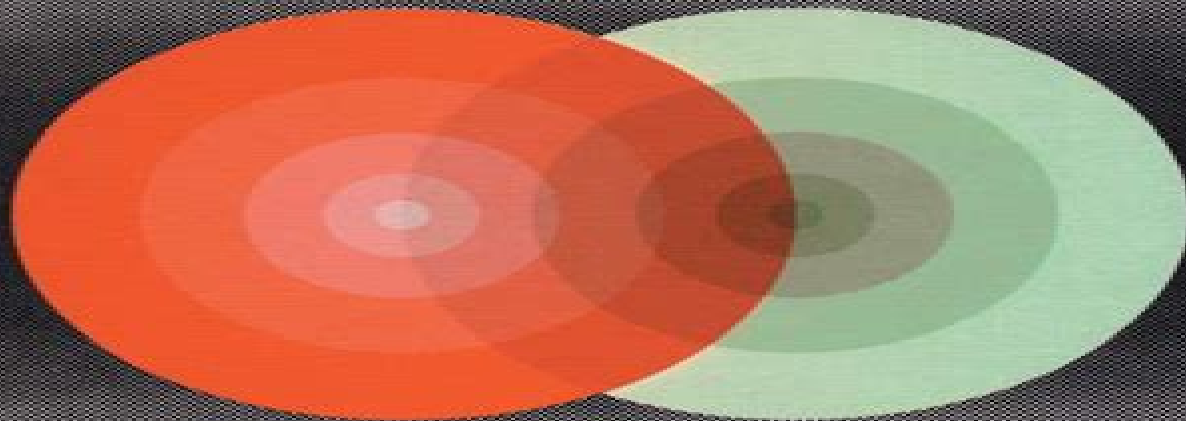
# **Black Hole Physics**

**Basic Concepts and  
New Developments**

by

**Valeri P. Frolov and Igor D. Novikov**

**Kluwer Academic Publishers**



**Fundamental Theories of Physics**

# Black Hole Physics Basic Concepts And New Developments

**Bei-Lok B. Hu, Enric Verdaguer**



## **Black Hole Physics Basic Concepts And New Developments:**

**Black Hole Physics** V. Frolov, I. Novikov, 2012-12-06 It is not an exaggeration to say that one of the most exciting predictions of Einstein's theory of gravitation is that there may exist black holes putative objects whose gravitational fields are so strong that no physical bodies or signals can break free of their pull and escape The proof that black holes do exist and an analysis of their properties would have a significance going far beyond astrophysics Indeed what is involved is not just the discovery of yet another even if extremely remarkable astrophysical object but a test of the correctness of our understanding of the properties of space and time in extremely strong gravitational fields Theoretical research into the properties of black holes and into the possible corollaries of the hypothesis that they exist has been carried out with special vigor since the beginning of the 1970's In addition to those specific features of black holes that are important for the interpretation of their possible astrophysical manifestations the theory has revealed a number of unexpected characteristics of physical interactions involving black holes By the middle of the 1980's a fairly detailed understanding had been achieved of the properties of the black holes their possible astrophysical manifestations and the specifics of the various physical processes involved Even though a completely reliable detection of a black hole had not yet been made at that time several objects among those scrutinized by astrophysicists were considered as strong candidates to be confirmed as being black holes

**Introduction to Black Hole Physics** Valeri P. Frolov, Andrei Zelnikov, 2011-09-22 What is a black hole How many of them are in our Universe Can black holes be created in a laboratory or in particle colliders Can objects similar to black holes be used for space and time travel This book discusses these and many other questions providing the reader with the tools required to explore the Black Hole Land independently

**Introduction to Black Hole Astrophysics** Gustavo E. Romero, Gabriela S. Vila, 2013-09-14 This book is based on the lecture notes of a one semester course on black hole astrophysics given by the author and is aimed at advanced undergraduate and graduate students with an interest in astrophysics The material included goes beyond that found in classic textbooks and presents details on astrophysical manifestations of black holes In particular jet physics and detailed accounts of objects like microquasars active galactic nuclei gamma ray bursts and ultra luminous X ray sources are covered as well as advanced topics like black holes in alternative theories of gravity The author avoids unnecessary technicalities and to some degree the book is self contained The reader will find some basic general relativity tools in Chapter 1 The appendices provide some additional mathematical details that will be useful for further study and a guide to the bibliography on the subject

**Modern Classical Physics** Kip S. Thorne, Roger D. Blandford, 2017-09-05 A groundbreaking text and reference book on twenty first century classical physics and its applications This first year graduate level text and reference book covers the fundamental concepts and twenty first century applications of six major areas of classical physics that every masters or PhD level physicist should be exposed to but often isn't statistical physics optics waves of all sorts elastodynamics fluid mechanics plasma physics and special and general relativity and cosmology Growing out of a

full year course that the eminent researchers Kip Thorne and Roger Blandford taught at Caltech for almost three decades this book is designed to broaden the training of physicists Its six main topical sections are also designed so they can be used in separate courses and the book provides an invaluable reference for researchers Presents all the major fields of classical physics except three prerequisites classical mechanics electromagnetism and elementary thermodynamics Elucidates the interconnections between diverse fields and explains their shared concepts and tools Focuses on fundamental concepts and modern real world applications Takes applications from fundamental experimental and applied physics astrophysics and cosmology geophysics oceanography and meteorology biophysics and chemical physics engineering and optical science and technology and information science and technology Emphasizes the quantum roots of classical physics and how to use quantum techniques to elucidate classical concepts or simplify classical calculations Features hundreds of color figures some five hundred exercises extensive cross references and a detailed index An online illustration package is available [High Energy Astrophysics](#) Malcolm S. Longair, 2011-02-03 Providing students with an in depth account of the astrophysics of high energy phenomena in the Universe the third edition of this well established textbook is ideal for advanced undergraduate and beginning graduate courses in high energy astrophysics Building on the concepts and techniques taught in standard undergraduate courses this textbook provides the astronomical and astrophysical background for students to explore more advanced topics Special emphasis is given to the underlying physical principles of high energy astrophysics helping students understand the essential physics The third edition has been completely rewritten consolidating the previous editions into one volume It covers the most recent discoveries in areas such as gamma ray bursts ultra high energy cosmic rays and ultra high energy gamma rays The topics have been rearranged and streamlined to make them more applicable to a wide range of different astrophysical problems [The Logic of Nature, Complexity and New Physics](#) Antonino Zichichi, 2008 From August 29 to September 7 2006 a large group of distinguished lecturers and young physicists coming from various countries around the world met in Erice Italy at the Ettore Majorana Foundation and Centre for Scientific Culture EMFCSC for the 44th course of the International School of Subnuclear Physics The Logic of Nature Complexity and New Physics From Quark Gluon Plasma to Superstrings Quantum Gravity and Beyond This book is a collection of lectures given during the course covering the most recent advances in theoretical physics and the latest results from current experimental facilities Following one of the aims of the School which is to encourage and promote young physicists to achieve recognition at an international level the students who have distinguished themselves for their excellence in research have been given the opportunity to publish their presentations in this volume [Semiclassical and Stochastic Gravity](#) Bei-Lok B. Hu, Enric Verdaguer, 2020-03-05 An overview of semi classical gravity theory and stochastic gravity as theories of quantum gravity in curved space time *Logic Of Nature, Complexity And New Physics, The: From Quark-gluon Plasma To Superstrings, Quantum Gravity And Beyond - Proceedings Of The International School Of Subnuclear Physics* Antonino Zichichi, 2008-07-04 From August 29 to September

7 2006 a large group of distinguished lecturers and young physicists coming from various countries around the world met in Erice Italy at the Ettore Majorana Foundation and Centre for Scientific Culture EMFCSC for the 44th course of the International School of Subnuclear Physics The Logic of Nature Complexity and New Physics From Quark Gluon Plasma to Superstrings Quantum Gravity and Beyond This book is a collection of lectures given during the course covering the most recent advances in theoretical physics and the latest results from current experimental facilities Following one of the aims of the School which is to encourage and promote young physicists to achieve recognition at an international level the students who have distinguished themselves for their excellence in research have been given the opportunity to publish their presentations in this volume

**Advanced General Relativity** Claude Barrabès, Peter A. Hogan, 2013-05-23 The book covers mainstream topics at research level involving gravitational waves spinning particles and black holes suitable for graduates and early postgraduates exploring avenues into research in general relativity

**Enchantment Of Urania, The: 25 Centuries Of Exploration Of The Sky** Massimo Capaccioli, 2024-03-19 Today we know much about the sky how stars are born how they live and die and how the universe as a whole evolves We have learned of the existence of another type of matter indifferent to light and yet decisive for the formation of galaxies and we have a hint of a dark energy that since the last 4 5 billion years has taken over the control of the cosmos We postulated and then discovered and even photographed black holes and listened to the faint rustle of the space time ripple produced when these monsters devour each other We reached these astonishing results recognized by a bunch of Nobel Prizes and filling every day the media with wonders for the eyes and the mind by the marriage of physics and astronomy that unified the Earth with the sky and then by the leap forward of science and technology in the Twentieth Century This rich heritage has ancient roots It was built by accumulating discoveries with errors observations with fantasies myths and superstitions with flashes of genius over a span of millennia since Homo sapiens turning his eyes to the immutable and perfect sky began to ask questions The book is a narration of the answers to these questions that had evolved over time a progressive path inserted in the general history with some second thoughts and many obstacles This is a saga of men and machines where greatness sometimes mixes with misery and passion often borders on sacrifice and even martyrdom Why should we know it Because our current knowledge is the result of these efforts and of the preconceptions that accompanied them The challenge has been to present this complex and intricate subject without resorting to any formulas so that it can be accessible to a wide audience of curious people including high school and university students and in general all those who normally keep themselves informed of scientific things A rich bibliography has also been added in the appendix for those wishing to learn more on one or more topics

*Introduction to Soliton Theory: Applications to Mechanics* Ligia Munteanu, Stefania Donescu, 2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and

on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

### **Factorization Method in Quantum Mechanics** Shi-Hai

Dong,2007-04-01 This book introduces the factorization method in quantum mechanics at an advanced level with the aim of putting mathematical and physical concepts and techniques like the factorization method Lie algebras matrix elements and quantum control at the reader s disposal For this purpose the text provides a comprehensive description of the factorization method and its wide applications in quantum mechanics which complements the traditional coverage found in quantum mechanics textbooks

### **Deformed Spacetime**

Fabio Cardone,Roberto Mignani,2007-09-04 This volume provides a detailed discussion of the mathematical aspects and physical applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism

### Hierarchical Methods

V. Kulish,2006-04-11 Everybody is current in a world surrounded by computer Computers determine our professional activity and penetrate increasingly deeper into our everyday life Therein we also need increasingly refined computer technology Sometimes we think that the next generation of computer will satisfy all our dreams giving us hope that most of our urgent problems will be solved very soon However the future comes and illusions dissipate This phenomenon occurs and vanishes sporadically and possibly is a fundamental law of our life Experience shows that indeed systematically remaining problems are mainly of a complex technological nature the creation of new generation of especially perfect crosschemes elements of memory etc But let us note that amongst these problems there are always ones solved by our purely intellectual efforts alone Progress in this direction does not require the invention of any superchip or other similar elements It is important to note that the results obtained in this way very often turn out to be more significant than the fruits of relevant technological progress The hierarchical asymptotic analytical numerical methods can be regarded as results of such purely intellectual efforts Their application allows us to simplify essentially computer calculational procedures and consequently to reduce the calculational time required It is obvious that this circumstance is very attractive

to any computer user      *Quantum Mechanics* Ajoy Ghatak, S. Lokanathan, 2004-03-31 An understanding of quantum mechanics is vital to all students of physics chemistry and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book Various concepts have been derived from first principles so it can also be used for self study The chapters on the JWKB approximation time independent perturbation theory and effects of magnetic field stand out for their clarity and easy to understand mathematics Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state Similarly three chapters on angular momentum give a detailed account of this important problem Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics nuclear physics atomic and molecular spectroscopy solid state physics and quantum well structures      **Generalized Thermodynamics** Byung Chan Eu, 2006-04-11 Despite a long history of almost 180 years stretching back to the times of Carnot and later Clausius and Lord Kelvin amongst others following him the subject of thermodynamics has not as yet seen its full maturity in the sense that the theory of irreversible processes has remained incomplete The works of L Onsager J Meixner I Prigogine on the thermodynamics of linear irreversible processes are in effect the early efforts toward the desired goal of giving an adequate description of irreversible processes but their theory is confined to near equilibrium phenomena The works in recent years by various research workers on the extension of the aforementioned thermodynamic theory of linear irreversible processes are further efforts toward the goal mentioned The present work is another of such efforts and a contribution to the subject of generalizing the thermodynamics of reversible processes namely equilibrium thermodynamics to that of irreversible processes non equilibrium thermodynamics without being restricted to linear irreversible processes In this context the terms far moved from equilibrium is often used in the literature and such states of macroscopic systems and non linear irreversible phenomena in them are the objects of interest in this work The thermodynamics of processes either reversible or irreversible is a continuum mechanical theory of matter and energy and their exchange between different parts of the system and as such it makes no direct reference to the molecules constituting the substance under consideration      **Foundations of Quantum Mechanics, an Empiricist Approach** W.M. de Muynck, 2006-04-11 Taking a new perspective provided by a generalization of the mathematical formalism encompassing positive operator valued measures this book views old and new problems of the foundations of quantum mechanics It demonstrates the crucial role of the generalized formalism in fundamental issues and practical applications      Theory of the Electron J. Keller, 2005-12-19 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis Its purpose is to

present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics The introduction describes the methodology Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed Chapters 4 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis

A Primer in Tensor Analysis and Relativity Ilya L. Shapiro, 2019-08-30 This undergraduate textbook provides a simple concise introduction to tensor algebra and analysis as well as special and general relativity With a plethora of examples explanations and exercises it forms a well rounded didactic text that will be useful for any related course The book is divided into three main parts all based on lecture notes that have been refined for classroom teaching over the past two decades Part I provides students with a comprehensive overview of tensors Part II links the very introductory first part and the relatively advanced third part demonstrating the important intermediate level applications of tensor analysis Part III contains an extended discussion of general relativity and includes material useful for students interested primarily in quantum field theory and quantum gravity Tailored to the undergraduate this textbook offers explanations of technical material not easily found or detailed elsewhere including an understandable description of Riemann normal coordinates and conformal transformations Future theoretical and experimental physicists as well as mathematicians will thus find it a wonderful first read on the subject

*Physics of Black Holes* Eleftherios Papantonopoulos, 2009-01-28 Black Holes are still considered to be among the most mysterious and fascinating objects in our universe Awaiting the era of gravitational astronomy much progress in theoretical modeling and understanding of classical and quantum black holes has already been achieved The present volume serves as a tutorial high level guided tour through the black hole landscape information paradox and blackhole thermodynamics numerical simulations of black hole formation and collisions braneworld scenarios and stability of black holes with respect to perturbations are treated in great detail as is their possible occurrence at the LHC An outgrowth of a topical and tutorial summer school this extensive set of carefully edited notes has been set up with the aim of constituting an advanced level multi authored textbook which meets the needs of both postgraduate students and young researchers in the fields of modern cosmology astrophysics and quantum field theory



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