

The Black Holes Tome 0 The Black Holes

Exploring Black Holes Edwin F. Taylor, John Archibald Wheeler, Edmund William Bertschinger. 2008

Black Holes Kip S. Thorne, Kirk S. Thorne, Richard H. Price, Douglas A. MacDonal. 1986-01-01 A pedagogical introduction to the physics of black holes. The membrane paradigm represents the four-dimensional spacetime of the black hole's event horizon as a two-dimensional membrane in three-dimensional space, allowing the reader to understand and compute the behavior of black holes in complex astrophysical environments.

Einstein's Monsters Chris Impey. 2019 Reveals how our comprehension of black holes is intrinsically linked to how we make sense of the universe and our place within it

Black Holes and Super Gravity IntroBooks. 2018-02-18 Black holes, supernovas, Dark matter, and the micro gravity or macro gravity related researches and studies for analysis can be of inbound curiosity to any professional in any subject stream. These are lessons about nature that is sure to trigger the curiosity in anyone. Shedding some light on these vitalities related to black holes, formation, creation, and deterioration is the objective here. Enormous amount of gases in the black holes, in varied capacities, and the unpredictable size and nature of the black holes, with super gravity, make the studies to be too complicated to understand precisely about the physical properties of the black holes. To describe the difference between gravitational and inertial mass, brings in the need to know on when an astronaut in orbit experiences apparent weightlessness. That is the way to understand on how black holes are formed for anyone else too.

Mapping the Heavens Priyamvada Natarajan. 2016-04-28 A theoretical astrophysicist explores the ideas that transformed our knowledge of the universe over the past century. The cosmos, once understood as a stagnant place, filled with the ordinary, is now a universe that is expanding at an accelerating pace, propelled by dark energy and structured by dark matter. Priyamvada Natarajan, our guide to these ideas, is someone at the forefront of the research—an astrophysicist who literally creates maps of invisible matter in the universe. She not only explains for a wide audience the science behind these essential ideas but also provides an understanding of how radical scientific theories gain acceptance. The formation and growth of black holes, dark matter halos, the accelerating expansion of the universe, the echo of the big bang, the discovery of exoplanets, and the possibility of other universes—these are some of the puzzling cosmological topics of the early twenty-first century. Natarajan discusses why the acceptance of new ideas about the universe and our place in it has never been linear and always contested even within the scientific community. And she affirms that, shifting and incomplete as science always must be, it offers the best path we have toward making sense of our wondrous, mysterious universe. “Part history, part science, all illuminating. If you want to understand the greatest ideas that shaped our current cosmic cartography, read this book.”—Adam G. Riess, Nobel Laureate in Physics, 2011 “A highly readable, insider’s view of recent discoveries in astronomy with unusual attention to the instruments used and the human drama of the scientists.”—Alan Lightman, author of *The Accidental Universe* and *Einstein's Dream*

Black Holes, Wormholes and Time Machines Jim Al-Khalili. 2002-01-01 Do you know: What might happen if you fall into a black hole? That the Universe does not have an edge? That the reason it gets dark at night is proof of the Big Bang? That cosmic particles time-travel through the atmosphere defying death? That our past, present and future might all coexist out there? With two remarkable ideas, Albert Einstein revolutionized our view of the Universe. His first was that nothing can travel faster than light—the ultimate speed limit. This simple fact leads to the unavoidable conclusion that space and time must be linked together forever as Spacetime. With his second monumental insight, Einstein showed how Spacetime is warped and stretched by the gravity of all objects in the Universe and even punctured by black holes. But such possible twisting of Spacetime allowed a magic not even Einstein could have imagined: time-travel. Theoretical physicist Jim Al-Khalili finally lays science fiction to rest as he opens up Einstein's Universe. Leading us gently and light-heartedly through the dizzying world of our space and time, he even gives us the recipe for a time machine, capable of taking us Back to the Future, to Alice's Wonderland, or on a trip with the Terminator.

Black Holes, Wormholes and Time Machines Jim Al-Khalili. 2016-04-19 Bringing the material up to date, *Black Holes, Wormholes and Time Machines, Second Edition* captures the new ideas and discoveries made in physics since the publication of the best-selling first edition. While retaining the popular format and style of its predecessor, this edition explores the latest developments in high-energy astroparticle physics

Why Aren't Black Holes Black? Robert M. Hazen, Maxine Singer. 1997 In the bestselling tradition of *Why Do Clocks Run Clockwise*, two renowned scientists take readers behind the scenes, into the worlds of chemistry, physics, earth science, and biochemistry, to explore the unanswered questions of science—and the relentless, coordinated efforts to bring those secrets to light.

Black Holes Mario Livio, Anton M. Koekemoer. 2011-02-24 Black holes, once considered to be of purely theoretical interest, play an important role in observational astronomy and a range of astrophysical phenomena. This volume is based on a meeting held at the Space Telescope Science Institute, which explored the many aspects of black hole astrophysics. Written by world experts in areas of stellar-mass, intermediate-mass and supermassive black holes, these review papers provide an up-to-date overview of developments in this field. Topics discussed range from black hole entropy and the fate of information to supermassive black holes at the centers of galaxies, and from the possibility of producing black holes in collider experiments to the measurements of black hole spins. This is an invaluable resource for researchers currently working in the field, and for graduate students interested in this active and growing area of research.

An Introduction to Black Holes, Information and the String Theory Revolution Leonard Susskind, James Lindesay. 2005 - A unique exposition of the foundations of the quantum theory of black holes including the impact of string theory, the idea of black hole complementarity and the holographic principle; Aims to educate the physicist or student of physics who is not an expert on string theory, on the revolution that has grown out of black hole physics and string theory

Dynamics of Extremal Black Holes Stefanos Aretakis. 2018-11-02 This Brief presents in a self-contained, non-technical and illustrative fashion the state-of-the-art results and techniques for the dynamics of extremal black holes. Extremal black holes are, roughly speaking, either maximally rotating or maximally charged. Astronomical observations suggest that near-extremal (stellar or supermassive) black holes are ubiquitous in the universe. The book presents various recently discovered characteristic phenomena (such as the horizon instability) that have enhanced our understanding of the dynamics of extremal black holes. The topics should be of interest to pure mathematicians, theoretical physicists and astronomers. This book provides common ground for communication between these scientific communities.

The Shadow of Black Holes Arne Grenzebach. 2016-05-07 This book introduces an analytic method to describe the shadow of black holes. As an introduction, it presents a survey of the attempts to observe the shadow of galactic black holes. Based on a detailed discussion of the Plebański-Demiański class of space-times, the book derives analytical formulas for the photon regions and for the boundary curve of the shadow as seen by an observer in the domain of outer communication. It also analyzes how the shadow depends on the motion of the observer. For all cases, the photon regions and shadows are visualized for various values of the parameters. Finally, it considers how the analytical formulas can be used for calculating the horizontal and vertical angular diameters of the shadow, and estimates values for the black holes at the centers of our Galaxy near Sgr A* and of the neighboring galaxy M87.

The Formation of Black Holes in General Relativity Demetrios Christodoulou. 2009 In 1965 Penrose introduced the fundamental concept of a trapped surface, on the basis of which he proved a theorem which asserts

that a spacetime containing such a surface must come to an end. The presence of a trapped surface implies, moreover, that there is a region of spacetime, the black hole, which is inaccessible to observation from infinity. Since that time a major challenge has been to find out how trapped surfaces actually form, by analyzing the dynamics of gravitational collapse. The present monograph achieves this aim by establishing the formation of trapped surfaces in pure general relativity through the focusing of gravitational waves. The theorems proved in this monograph constitute the first foray into the long-time dynamics of general relativity in the large, that is, when the initial data are no longer confined to a suitable neighborhood of trivial data. The main new method, the short pulse method, applies to general systems of Euler-Lagrange equations of hyperbolic type and provides the means to tackle problems which have hitherto seemed unapproachable. This monograph will be of interest to people working in general relativity, geometric analysis, and partial differential equations.

Physics of Black Holes I. Novikov, V. Frolov. 2013-03-09 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 and signals can break free of their pull and escape. Even though a completely reliable discovery of a black hole has not yet been made, several objects among those scrutinized by astrophysicists will very likely be conformed as black holes. The proof that they 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 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 1970s. 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 now, a fairly detailed understanding has been achieved of the properties of the black holes, their possible astrophysical manifestations, and the specifics of the various physical processes involved. Furthermore, profound links were found between black-hole theory and such seemingly very distant fields as thermodynamics, information theory, and quantum theory.

Unveiling the Edge of Time John Gribbin. 1994 Acclaimed science writer John Gribbin recounts dramatic stories that have led scientists to believe black holes and their more mysterious kin are not only real, but might actually provide a passage to other universes and travel through time. 56 line drawings.

Black Holes, Cosmology and Extra Dimensions Kirill A. Bronnikov, Sergei G. Rubin. 2013 Assuming foundational knowledge of special and general relativity, this book guides the reader on issues surrounding black holes, wormholes and cosmology. Half of it is devoted to local strong field configurations (black holes and wormholes) in general relativity and the most relevant of alternative theories: scalar tensor, f(R) and multidimensional theories. The remaining half is on cosmology, including inflation and a unified description of the whole evolution of the universe. Much of the content is new in book publications, because it was previously found only in journal publications, e.g. regarding regular black holes, various scalar field solutions, wormholes and their stability. The original approach to nonlinear multidimensional gravity that is able to construct a unique perspective describing different phenomena is highlighted. Expository work is conducted for mechanism of symmetries and fundamental constants formation.

Physics of Relativistic Objects in Compact Binaries: from Birth to Coalescence Monica Colpi, Piergiorgio Casella, Vittorio Gorini, Ugo Moschella, Andrea Possenti. 2009-03-28 A very attractive feature of the theory of general relativity is that it is a perfect example of a "falsifiable" theory: not a tunable parameter is present in the theory and therefore even a single experiment incompatible with a prediction of the theory would immediately lead to its inevitable rejection, at least in the physical regime of application of the aforementioned experiment. This fact provides additional scientific value to one of the boldest and most fascinating achievements of the human intellect ever, and motivates a wealth of efforts in designing and implementing tests aimed at the falsification of the theory. The first historical test on the theory has been the detection of light grazing the solar surface (Eddington 1919): the compatibility of the theory with this first experiment together with its ability to explain the magnitude of the perihelion advance of Mercury contributed strongly to boost acceptance and worldwide knowledge. However, technological limitations prevented physicists from setting up more constraining tests for several decades after the formulation of the theory. In fact, a relevant problem with experimental general relativity is that the predicted deviations from the Newtonian theory of gravity are very small when the experiments are carried out in terrestrial laboratories.

Black Holes Derek J. Raine, Edwin George Thomas. 2010 This introduction to the fascinating subject of black holes fills a significant gap in the literature which exists between popular, non-mathematical expositions and advanced textbooks at the research level. It is designed for advanced undergraduates and first year postgraduates as a useful stepping-stone to the advanced literature. The book provides an accessible introduction to the exact solutions of Einstein's vacuum field equations describing spherical and axisymmetric (rotating) black holes. The geometry and physical properties of these spacetimes are explored through the motion of particles and light. The use of different coordinate systems, maximal extensions and Penrose diagrams is explained. The association of the surface area of a black hole with its entropy is discussed and it is shown that with the introduction of quantum mechanics black holes cease to be black and can radiate. This result allows black holes to satisfy the laws of thermodynamics and thus be consistent with the rest of physics. In this new edition the problems in each chapter have been revised and solutions are provided. The text has been expanded to include new material on wormholes and clarify various other issues.

Black Holes and Time Warps Kip S Thorne. 1994 In this masterfully written and brilliantly informed work, Dr. Rhorne, the Feynman Professor of Theoretical Physics at Caltech, leads readers through an elegant, always human, tapestry of interlocking themes, answering the great question: what principles control our universe and why do physicists think they know what they know? Features an introduction by Stephen Hawking.

Black Holes Ker Than. 2010 Provides information about black holes, explaining how stars become black holes, looking at the types of black holes, and discussing what is inside a black hole and how scientists study them.

Black Holes Explained James Negus. 2018-07-15 On December 26, 2015, the Laser Interferometer Gravitational-Wave Observatory (LIGO) detected gravitational waves generated from merging black holes for the first time in human history. Through an engaging, easily accessible approach, the origins, dynamics, and ultimate fate of black holes are thoroughly unraveled so that students without a scientific background can grasp complex physics theories. This book supports the Next Generation Science Standards' emphasis on scientific collection and analysis of data and evidence-based theories by discussing the methods research universities and space agencies use to explore black holes.

Supermassive Black Holes in the Distant Universe A.J. Barger. 2013-11-09 Quasars, and the menagerie of other galaxies with unusual nuclei, now collectively known as Active Galactic Nuclei or AGN, have, in one form or another, sparked the interest of astronomers for over 60 years. The only known mechanism that can explain the staggering amounts of energy emitted by the innermost regions of these systems is gravitational energy release by matter falling towards a supermassive black hole --- a black hole whose mass is millions to billions of times the mass of our Sun. AGN emit radiation at all wavelengths. X-rays originating at a distance of a few times the event horizon of the black hole are the emissions closest to the black hole that we can detect; thus, X-rays directly reveal the presence of active supermassive black holes. Oftentimes, however, the supermassive black holes that lie at the centers of AGN are cocooned in gas and dust that absorb the emitted low energy X-rays and the optical and ultraviolet light, hiding the black hole from view at these wavelengths. Until recently, this low-energy absorption presented a major obstacle in observational efforts to map the accretion history of the universe. In 1999 and 2000, the launches of the Chandra and XMM-Newton X-ray Observatories finally broke the impasse. The impact of these observatories on X-ray astronomy is similar to the impact that the Hubble Space Telescope had on optical astronomy. The astounding new data from these observatories have enabled astronomers to make enormous advances in their understanding of when accretion occurs.

Three Lectures on Complexity and Black Holes Leonard Susskind. 2020-05-11 These three lectures cover a certain aspect of complexity and black holes, namely the relation to the second law of thermodynamics. The first lecture describes the meaning of quantum complexity, the analogy between entropy and complexity, and the second law of complexity. Lecture two reviews the connection between the second law of complexity

and the interior of black holes. Prof. L. Susskind discusses how firewalls are related to periods of non-increasing complexity which typically only occur after an exponentially long time. The final lecture is about the thermodynamics of complexity, and “uncomplexity” as a resource for doing computational work. The author explains the remarkable power of “one clean qubit,” in both computational terms and in space-time terms. This book is intended for graduate students and researchers who want to take the first steps towards the mysteries of black holes and their complexity.

Black Holes Walter Sullivan.1979 Speculations and discoveries that have convinced many leading minds of science that black holes exist and may even make up a large part of our universe.

Formation Of The First Black Holes Muhammad Latif,Dominik Schleicher.2019-04-26 The formation of the first supermassive black holes is one of the main open questions in our understanding of high-redshift structure formation. In this book, we aim to provide a summary of state-of-the-art modern research on this topic, exploring the formation of massive black holes from a fluid-dynamical, stellar-dynamical and chemical perspective. The book thus presents a solid theoretical foundation, a comparison with current observations and future observational perspectives with upcoming missions such as the Square Kilometre Array, the European Extremely Large Telescope, the Euclid satellite as well as possible detections via gravitational waves.

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, astro physical 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.

Gravity's Fatal Attraction Mitchell Begelman,Martin Rees.2009-12-21 Richly illustrated with the images from observatories on the ground and in space, and computer simulations, this book shows how black holes were discovered, and discusses our current understanding of their role in cosmic evolution. This second edition covers new discoveries made in the past decade, including definitive proof of a black hole at the center of the Milky Way, evidence that the expansion of the Universe is accelerating, and the new appreciation of the connection between black holes and galaxy formation. There are entirely new chapters on gamma-ray bursts and cosmic feedback. Begelman and Rees blend theoretical arguments with observational results to demonstrate how both approaches contributed to this subject. Clear illustrations and photographs reveal the strange and amazing workings of our universe. The engaging style makes this book suitable for introductory undergraduate courses, amateur astronomers, and all readers interested in astronomy and physics.

The Geometry of Kerr Black Holes Barrett O'Neill.2014-01-15 Suitable for advanced undergraduates and graduate students of mathematics as well as for physicists, this unique monograph and self-contained treatment constitutes an introduction to modern techniques in differential geometry. 1995 edition.

Black Holes Jean-Pierre Luminet.1992-08-28 Black holes are undoubtedly one of the most fascinating discoveries of modern astronomy, and their description one of the most daring intellectual feats of modern times. They have already become legendary, forming the basis of many myths, fantasies and science fiction movies. Are they really the monsters which devour light and stars; bottomless celestial pits into which all matter is sucked and crushed? Are they an observable reality, or are they just hypothetical objects from the theory of relativity? In answering such questions the author takes us on a fabulous journey through space and time. Dr Jean-Pierre Luminet is an astronomer at Meudon Observatory in France, a specialist on the subject of black holes, and has also acquired a reputation for being a gifted writer and communicator. In this book he makes the subject of black holes accessible to any interested reader, who will need no mathematical background.

The Little Book of Black Holes Steven S. Gubser,Frans Pretorius.2017-09-25 Dive into a mind-bending exploration of the physics of black holes Black holes, predicted by Albert Einstein's general theory of relativity more than a century ago, have long intrigued scientists and the public with their bizarre and fantastical properties. Although Einstein understood that black holes were mathematical solutions to his equations, he never accepted their physical reality—a viewpoint many shared. This all changed in the 1960s and 1970s, when a deeper conceptual understanding of black holes developed just as new observations revealed the existence of quasars and X-ray binary star systems, whose mysterious properties could be explained by the presence of black holes. Black holes have since been the subject of intense research—and the physics governing how they behave and affect their surroundings is stranger and more mind-bending than any fiction. After introducing the basics of the special and general theories of relativity, this book describes black holes both as astrophysical objects and theoretical “laboratories” in which physicists can test their understanding of gravitational, quantum, and thermal physics. From Schwarzschild black holes to rotating and colliding black holes, and from gravitational radiation to Hawking radiation and information loss, Steven Gubser and Frans Pretorius use creative thought experiments and analogies to explain their subject accessibly. They also describe the decades-long quest to observe the universe in gravitational waves, which recently resulted in the LIGO observatories' detection of the distinctive gravitational wave “chirp” of two colliding black holes—the first direct observation of black holes' existence. The Little Book of Black Holes takes readers deep into the mysterious heart of the subject, offering rare clarity of insight into the physics that makes black holes simple yet destructive manifestations of geometric destiny.

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.

Black Hole Survival Guide Janna Levin.2022-03-15 From the acclaimed author of *Black Hole Blues* and *Other Songs from Outer Space*—an authoritative and accessible guide to the most alluring and challenging phenomena of contemporary science. [Levin will] take you on a safe black hole trip, an exciting travel story enjoyed from your chair's event horizon.” —Boston Globe Through her writing, astrophysicist Janna Levin has focused on making the science she studies not just comprehensible but also, and perhaps more important, intriguing to the nonscientist. In this book, she helps us to understand and find delight in the black hole—perhaps the most opaque theoretical construct ever imagined by physicists—illustrated with original artwork by American painter and photographer Lia Halloran. Levin takes us on an evocative exploration of black holes, provoking us to imagine the visceral experience of a black hole encounter. She reveals the influence of black holes as they populate the universe, sculpt galaxies, and even infuse the whole expanse of reality that we inhabit. Lively, engaging, and utterly unique, *Black Hole Survival Guide* is not just informative—it is, as well, a wonderful read from first to last.

Black Holes Steven I. Danko.1985 No descriptive material is available for this title.

Black Hole Charles Burns.2005-10-18 “The best graphic novel of the year” (Time) tells the story of a strange plague devastating the lives of teenagers in mid-1970s suburban Seattle, revealing the horrifying nature of high school alienation—the savagery, the cruelty, the relentless anxiety, and the ennui. We learn from the outset that a strange plague has descended upon the area's teenagers, transmitted by sexual contact. The disease is manifested in any number of ways—from the hideously grotesque to the subtle (and concealable)—but once you've got it, that's it. There's no turning back. As we inhabit the heads of several key characters—some kids who have it, some who don't, some who are about to get it—what unfolds isn't the expected battle to fight the plague, or bring heightened awareness to it, or even to treat it. What we become

witness to instead is a fascinating and eerie portrait of the nature of high school alienation itself. And then the murders start. As hypnotically beautiful as it is horrifying, *Black Hole* transcends its genre by deftly exploring a specific American cultural moment in flux and the kids who are caught in it—back when it wasn't exactly cool to be a hippie anymore, but Bowie was still just a little too weird. To say nothing of sprouting horns and molting your skin...

Gravity, Black Holes, and the Very Early Universe Tai L. Chow.2007-10-24 Here it is, in a nutshell: the history of one genius's most crucial work - discoveries that were to change the face of modern physics. In the early 1900s, Albert Einstein formulated two theories that would forever change the landscape of physics: the Special Theory of Relativity and the General Theory of Relativity. Respected American academic Professor Tai Chow tells us the story of these discoveries. He details the basic ideas of Einstein, including his law of gravitation. Deftly employing his inimitable writing style, he goes on to explain the physics behind black holes, weaving into his account an explanation of the structure of the universe and the science of cosmology.

The Mathematical Theory of Black Holes Subrahmanyan Chandrasekhar.1998 Part of the reissued Oxford Classic Texts in the Physical Sciences series, this book was first published in 1983, and has swiftly become one of the great modern classics of relativity theory. It represents a personal testament to the work of the author, who spent several years writing and working-out the entire subject matter. The theory of black holes is the most simple and beautiful consequence of Einstein's relativity theory. At the time of writing there was no physical evidence for the existence of these objects, therefore all that Professor Chandrasekhar used for their construction were modern mathematical concepts of space and time. Since that time a growing body of evidence has pointed to the truth of Professor Chandrasekhar's findings, and the wisdom contained in this book has become fully evident.

Formation and Evolution of Black Holes in the Galaxy Gerald Edward Brown,Chang-Hwan Lee.2003 In published papers H A Bethe and G E Brown worked out the collapse of large stars and supernova explosions. They went on to evolve binaries of compact stars, finding that in the standard scenario the first formed neutron star always went into a black hole in common envelope evolution. C-H Lee joined them in the study of black hole binaries and gamma ray bursts. They found the black holes to be the fossils of the gamma ray bursts. From their properties they could reconstruct features of the burst and of the accompanying hypernova explosions. This invaluable book contains 23 papers on astrophysics, chiefly on compact objects, written over 23 years. The papers are accompanied by illuminating commentary. In addition there is an appendix on kaon condensation which the editors believe to be relevant to the equation of state in neutron stars, and to explain why black holes are formed at relatively low masses.

Black Hole Astrophysics David L. Meier.2012-07-27 As a result of significant research over the past 20 years, black holes are now linked to some of the most spectacular and exciting phenomena in the Universe, ranging in size from those that have the same mass as stars to the super-massive objects that lie at the heart of most galaxies, including our own Milky Way. This book first introduces the properties of simple isolated holes, then adds in complications like rotation, accretion, radiation, and magnetic fields, finally arriving at a basic understanding of how these immense engines work. **Black Hole Astrophysics** • reviews our current knowledge of cosmic black holes and how they generate the most powerful observed phenomena in the Universe; • highlights the latest, most up-to-date theories and discoveries in this very active area of astrophysical research; • demonstrates why we believe that black holes are responsible for important phenomena such as quasars, microquasars and gamma-ray bursts; • explains to the reader the nature of the violent and spectacular outflows (winds and jets) generated by black hole accretion.

A Black Hole is Not a Hole Carolyn Cinami DeCristofano.2021-09-07 A black hole isn't really a hole . . . is it? Get ready to S-T-R-E-T-C-H your mind with this beloved and best-selling science book. Updated with an all-new chapter about the first black-hole image ever! What are black holes, what causes them, and how the heck did scientists discover them? Acclaimed STEM writer Carolyn DeCristofano's playful text shares how astronomers find black holes, introduces our nearest black-hole neighbors, and provides an excellent introduction to an extremely complex scientific topic. Gorgeous space paintings supplement real telescopic images, and funny doodles and speech bubbles keep the content light and fun.

The Little Book of Black Holes Steven S. Gubser,Frans Pretorius.2017-10-10 Dive into a mind-bending exploration of the physics of black holes Black holes, predicted by Albert Einstein's general theory of relativity more than a century ago, have long intrigued scientists and the public with their bizarre and fantastical properties. Although Einstein understood that black holes were mathematical solutions to his equations, he never accepted their physical reality—a viewpoint many shared. This all changed in the 1960s and 1970s, when a deeper conceptual understanding of black holes developed just as new observations revealed the existence of quasars and X-ray binary star systems, whose mysterious properties could be explained by the presence of black holes. Black holes have since been the subject of intense research—and the physics governing how they behave and affect their surroundings is stranger and more mind-bending than any fiction. After introducing the basics of the special and general theories of relativity, this book describes black holes both as astrophysical objects and theoretical “laboratories” in which physicists can test their understanding of gravitational, quantum, and thermal physics. From Schwarzschild black holes to rotating and colliding black holes, and from gravitational radiation to Hawking radiation and information loss, Steven Gubser and Frans Pretorius use creative thought experiments and analogies to explain their subject accessibly. They also describe the decades-long quest to observe the universe in gravitational waves, which recently resulted in the LIGO observatories' detection of the distinctive gravitational wave “chirp” of two colliding black holes—the first direct observation of black holes' existence. *The Little Book of Black Holes* takes readers deep into the mysterious heart of the subject, offering rare clarity of insight into the physics that makes black holes simple yet destructive manifestations of geometric destiny.

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