

Black Hole

James Negus

The Galactic Supermassive Black Hole Fulvio Melia,2020-12-08 Here, one of the world's leading astrophysicists provides the first comprehensive and logically structured overview of the many ideas and discoveries pertaining to the supermassive black hole at the galactic center known as Sagittarius A*. By far the closest galactic nucleus in the universe, Sagittarius A* alone can provide us with a realistic expectation of learning about the physics of strong gravitational fields, and the impact of such fields on the behavior of matter and radiation under severe physical conditions. Its proximity may even provide the opportunity to directly test one of general relativity's most enigmatic predictions--the existence of closed pockets of space-time hidden behind an event horizon. The plethora of research on Sagittarius A* since its discovery in 1974 has long seemed an interwoven pattern of loose threads. No one has successfully synthesized this growing body of work into a manageable, coherent book both for professional researchers and for students taking courses focusing on black holes and galactic nuclei--until now. With Fulvio Melia's *The Galactic Supermassive Black Hole*, readers finally have at their disposal a one-volume crucible of essential ideas, logically streamlined but with thorough references for those wishing to explore the various topics in greater depth.

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 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...

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.

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.

Black Holes James Roland,2017 -This book explores the latest discoveries about black holes while also exploring various theories and discoveries throughout history and even looking into the future.---

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.

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 Kip S. Thorne,Kirk S. Thorne,Richard H. Price,Douglas A. MacDonald,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.

What's Inside a Black Hole? Andrew Solway,2006 Where can black holes be found and what are they made of? Find out in this informative book that looks at many of the mysteries in the universe. Detailed facts and photos help to answer your questions about the stars and beyond.

[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.

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 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.

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.

Black Holes: A Very Short Introduction Katherine Blundell, 2015-12-10 Black holes are a constant source of fascination to many due to their mysterious nature. In this Very Short Introduction, Katherine Blundell addresses a variety of questions, including what a black hole actually is, how they are characterized and discovered, and what would happen if you came too close to one. She explains how black holes form and grow - by stealing material that belongs to stars, as well as how many there may be in the Universe. She also explores the large black holes found in the centres of galaxies, and how black holes give rise to quasars and other spectacular phenomena in the cosmos. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Black Hole Physics Daniel Grumiller, Mohammad Mehdi Sheikh-Jabbari, 2022-11-07 This textbook gradually introduces the reader to several topics related to black hole physics with a didactic approach. It starts with the most basic black hole solution, the Schwarzschild metric, and discusses the basic classical properties of black hole solutions as seen by different probes. Then it reviews various theorems about black hole properties as solutions to Einstein gravity coupled to matter fields, conserved charges associated with black holes, and laws of black hole thermodynamics. Next, it elucidates semiclassical and quantum aspects of black holes, which are relevant in ongoing and future research. The book is enriched with many exercises and solutions to assist in the learning. The textbook is designed for physics graduate students who want to start their research career in the field of black holes; postdocs who recently changed their research focus towards black holes and want to get up-to-date on recent and current research topics; advanced researchers intending to teach (or learn) basic and advanced aspects of black hole physics and the associated mathematical tools. Besides general relativity, the reader needs to be familiar with standard undergraduate physics, like thermodynamics, quantum mechanics, and statistical mechanics. Moreover, familiarity with basic quantum field theory in Minkowski space is assumed. The book covers the rest of the needed background material in the main text or the appendices.

Black Hole Marcia Bartusiak, 2015-04-28 The award-winning science writer “packs a lot of learning into a deceptively light and enjoyable read” exploring the contentious history of the black hole (New Scientist). For more than half a century, physicists and astronomers engaged in heated dispute over the possibility of black holes in the universe. The strange notion of a space-time abyss from which not even light escapes seemed to confound all logic. Now Marcia Bartusiak, author of Einstein’s Unfinished Symphony and The Day We Found the Universe, recounts the frustrating, exhilarating, and at times humorous battles over one of history’s most dazzling ideas. Bartusiak shows how the black hole helped revive Einstein’s greatest achievement, the general theory of relativity, after decades of languishing in obscurity. Not until astronomers discovered such surprising new phenomena as neutron stars and black holes did the once-sedate universe transform into an Einsteinian cosmos, filled with sources of titanic energy that can be understood only in the light of relativity. Black Hole explains how Albert Einstein, Stephen Hawking, and other leading thinkers completely changed the way we see the universe.

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 Black Hole at the Center of Our Galaxy Fulvio Melia, 2018-06-05 Could Einstein have possibly anticipated directly testing the most captivating prediction of general relativity, that there exist isolated pockets of spacetime shielded completely from our own? Now, almost a century after that theory emerged, one of the world's leading astrophysicists presents a wealth of recent evidence that just such an entity, with a mass of about three million suns, is indeed lurking at the center of our galaxy, the Milky Way--in the form of a supermassive "black hole"! With this superbly illustrated, elegantly written, nontechnical account of the most enigmatic astronomical object yet observed, Fulvio Melia captures all the excitement of the growing realization that we are on the verge of actually seeing this exotic object within the next few years. Melia traces our intellectual pilgrimage to the "brooding behemoth" at the heart of the Milky Way. He describes the dizzying technological advances that have recently brought us to the point of seeing through all the cosmic dust to a dark spot in a clouded cluster of stars in the constellation Sagittarius. Carefully assembling the compelling circumstantial evidence for its black hole status, he shows that it is primed to reveal itself as a glorious panorama of activity within this decade--through revolutionary images of its "event horizon" against the bright backdrop of nearby, radiating gas. Uniquely, this book brings together a specific and fascinating astronomical subject--black holes--with a top researcher to provide both amateur and armchair astronomers, but also professional scientists seeking a concise overview of the topic, a real sense of the palpable thrill in the scientific community when an important discovery is imminent.

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.

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, Witness the Wonders in **Black Hole** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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