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Light of the Stars: Alien Worlds and the Fate of the Earth
Black Hole Blues and Other Songs from Outer Space
Accessory to War: The Unspoken Alliance Between Astrophysics and the Military
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Welcome to the Universe

Light of the Stars: Alien Worlds and the Fate of the Earth

Winner of the 2019 Phi Beta Kappa Award for Science "A valuable perspective on the most important problem of our time." —Adam Becker, NPR *Light of the Stars* tells the story of humanity's coming of age as we realize we might not be alone in this universe. Astrophysicist Adam Frank traces the question of alien life from the ancient Greeks to modern thinkers, and he demonstrates that recognizing the possibility of its existence might be the key to save us from climate change. With clarity and conviction, *Light of the Stars* asks the consequential question: What can the likely presence of life on other planets tell us about our own fate?

Black Hole Blues and Other Songs from Outer Space

Vishnu, the odd-job man in a Bombay apartment block, lies dying on the staircase landing. Around him the lives of the apartment dwellers unfold - the warring housewives on the first floor, the lovesick teenagers on the second, and the widower, alone and quietly grieving at the top of the building. In a fevered state Vishnu looks back on his love affair with the seductive Padmini and comedy becomes tragedy as his life draws to a close.

Accessory to War: The Unspoken Alliance Between

Astrophysics and the Military

As the twentieth century closed, Fred Adams and Greg Laughlin captured the attention of the world by identifying the five ages of time. In *The Five Ages of the Universe*, Adams and Laughlin demonstrate that we can now understand the complete life story of the cosmos from beginning to end. Adams and Laughlin have been hailed as the creators of the definitive long-term projection of the evolution of the universe. Their achievement is awesome in its scale and profound in its scientific breadth. But *The Five Ages of the Universe* is more than a handbook of the physical processes that guided our past and will shape our future; it is a truly epic story. Without leaving earth, here is a fantastic voyage to the physics of eternity. It is the only biography of the universe you will ever need.

Black Hole

'This is about gob-smacking science at the far end of reason Take it nice and easy and savour the experience of your mind being blown without recourse to hallucinogens' Nicholas Lezard, *Guardian* For most people, quantum theory is a byword for mysterious, impenetrable science. And yet for many years it was equally baffling for scientists themselves. In this magisterial book, Manjit Kumar gives a dramatic and superbly-written history of this fundamental scientific

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revolution, and the divisive debate at its core. Quantum theory looks at the very building blocks of our world, the particles and processes without which it could not exist. Yet for 60 years most physicists believed that quantum theory denied the very existence of reality itself. In this tour de force of science history, Manjit Kumar shows how the golden age of physics ignited the greatest intellectual debate of the twentieth century. Quantum theory is weird. In 1905, Albert Einstein suggested that light was a particle, not a wave, defying a century of experiments. Werner Heisenberg's uncertainty principle and Erwin Schrodinger's famous dead-and-alive cat are similarly strange. As Niels Bohr said, if you weren't shocked by quantum theory, you didn't really understand it. While "Quantum" sets the science in the context of the great upheavals of the modern age, Kumar's centrepiece is the conflict between Einstein and Bohr over the nature of reality and the soul of science. 'Bohr brainwashed a whole generation of physicists into believing that the problem had been solved', lamented the Nobel Prize-winning physicist Murray Gell-Mann. But in "Quantum", Kumar brings Einstein back to the centre of the quantum debate. "Quantum" is the essential read for anyone fascinated by this complex and thrilling story and by the band of brilliant men at its heart.

The Formation and Disruption of Black Hole Jets

New York Times Bestseller A luminous companion to the phenomenal bestseller *Astrophysics for People in a Hurry*. Astrophysicist Neil deGrasse Tyson has

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attracted one of the world's largest online followings with his fascinating, widely accessible insights into science and our universe. Now, Tyson invites us to go behind the scenes of his public fame by revealing his correspondence with people across the globe who have sought him out in search of answers. In this hand-picked collection of 101 letters, Tyson draws upon cosmic perspectives to address a vast array of questions about science, faith, philosophy, life, and of course, Pluto. His succinct, opinionated, passionate, and often funny responses reflect his popularity and standing as a leading educator. Tyson's 2017 bestseller *Astrophysics for People in a Hurry* offered more than one million readers an insightful and accessible understanding of the universe. Tyson's most candid and heartfelt writing yet, *Letters from an Astrophysicist* introduces us to a newly personal dimension of Tyson's quest to explore our place in the cosmos.

The Sky Is Not the Limit

"Alive with intensity, gut-wrenching honesty, moments of humor, and—of course—heart. Not to be missed."—Nova Ren Suma, author of *Imaginary Girls* and *The Walls Around Us* A stunning novel about the transformative power of love, perfect for fans of Jay Asher and Laurie Halse Anderson. Sixteen-year-old physics nerd Aysel is obsessed with plotting her own death. With a mother who can barely look at her without wincing, classmates who whisper behind her back, and a father whose violent crime rocked her small town, Aysel is ready to turn her potential

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energy into nothingness. There's only one problem: she's not sure she has the courage to do it alone. But once she discovers a website with a section called Suicide Partners, Aysel's convinced she's found her solution—Roman, a teenage boy who's haunted by a family tragedy, is looking for a partner. Even though Aysel and Roman have nothing in common, they slowly start to fill in each other's broken lives. But as their suicide pact becomes more concrete, Aysel begins to question whether she really wants to go through with it. Ultimately, she must choose between wanting to die or trying to convince Roman to live so they can discover the potential of their energy together.

Gravity's Century

This book reviews the phenomenology displayed by relativistic jets as well as the most recent theoretical efforts to understand the physical mechanisms at their origin. Relativistic jets have been observed and studied in Active Galactic Nuclei (AGN) for about half a century and are believed to be fueled by accretion onto a supermassive black hole at the center of the host galaxy. Since the first discovery of relativistic jets associated with so-called "micro-quasars" much more recently, it has seemed clear that much of the physics governing the relativistic outflows in stellar X-ray binaries harboring black holes and in AGN must be common, but acting on very different spatial and temporal scales. With new observational and theoretical results piling up every day, this book attempts to synthesize a

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consistent, unified physical picture of the formation and disruption of jets in accreting black-hole systems. The chapters in this book offer overviews accessible not only to specialists but also to graduate students and astrophysicists working in other areas. Covered topics comprise Relativistic jets in stellar systems Launching of AGN jets Parsec-scale AGN jets Kiloparsec-scale AGN jets Black hole magnetospheres Theory of relativistic jets The structure and dynamics of the inner accretion disk The origin of the jet magnetic field X-ray observations, phenomenology, and connection with theory

Letters from an Astrophysicist

From the author of *Astrophysics for People in a Hurry* and the host of *Cosmos: A Spacetime Odyssey*, a memoir about growing up and a young man's budding scientific curiosity. This is the absorbing story of Neil deGrasse Tyson's lifelong fascination with the night sky, a restless wonder that began some thirty years ago on the roof of his Bronx apartment building and eventually led him to become the director of the Hayden Planetarium. A unique chronicle of a young man who at one time was both nerd and jock, Tyson's memoir could well inspire other similarly curious youngsters to pursue their dreams. Like many athletic kids he played baseball, won medals in track and swimming, and was captain of his high school wrestling team. But at the same time he was setting up a telescope on winter nights, taking an advanced astronomy course at the Hayden Planetarium, and

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spending a summer vacation at an astronomy camp in the Mojave Desert. Eventually, his scientific curiosity prevailed, and he went on to graduate in physics from Harvard and to earn a Ph.D. in astrophysics from Columbia. There followed postdoctoral research at Princeton. In 1996, he became the director of the Hayden Planetarium, where some twenty-five years earlier he had been awed by the spectacular vista in the sky theater. Tyson pays tribute to the key teachers and mentors who recognized his precocious interests and abilities, and helped him succeed. He intersperses personal reminiscences with thoughts on scientific literacy, careful science vs. media hype, the possibility that a meteor could someday hit the Earth, dealing with society's racial stereotypes, what science can and cannot say about the existence of God, and many other interesting insights about science, society, and the nature of the universe. Now available in paperback with a new preface and other additions, this engaging memoir will enlighten and inspire an appreciation of astronomy and the wonders of our universe.

Death by Black Hole: And Other Cosmic Quandaries

"[Tyson] tackles a great range of subjects...with great humor, humility, and—most important—humanity." —Entertainment Weekly Loyal readers of the monthly "Universe" essays in Natural History magazine have long recognized Neil deGrasse Tyson's talent for guiding them through the mysteries of the cosmos with clarity and enthusiasm. Bringing together more than forty of Tyson's favorite essays,

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Death by Black Hole explores a myriad of cosmic topics, from what it would be like to be inside a black hole to the movie industry's feeble efforts to get its night skies right. One of America's best-known astrophysicists, Tyson is a natural teacher who simplifies the complexities of astrophysics while sharing his infectious fascination for our universe.

The Care and Feeding of a Pet Black Hole

This self-contained textbook brings together many different branches of physics--e.g. nuclear physics, solid state physics, particle physics, hydrodynamics, relativity--to analyze compact objects. The latest astronomical data is assessed. Over 250 exercises.

One Universe:

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

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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.

The Black Hole War

A “scabrously funny novel” about designer drugs, dead-end jobs, and murder set in

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the San Francisco of the near future (Publishers Weekly). There are no old drug addicts. That's what everyone says, at least. So how is Chuck forty three years old and still neck-deep in this scene? He knows he's the creepy old guy with the drugs or the guy who's too old to be at the party doing everyone else's drugs, but if it ain't broke . . . Well, he still manages to make it to work at the dwarf whale distributor. He may hate that his dearly seedy San Francisco has been overrun by Starbucks, startups, and Lululemon moms, but he makes do with a rent-controlled apartment and roommates he never sees. It's not perfect, but it's livable—until it's not. Every addict has that one vice that tips them from relatively functional to completely unhinged. For Chuck, it's a new drug that doesn't even have a name yet; it's just a smokable, everlasting gobstopper of mellow high. But when chunks of time begin to disappear and rearrange themselves, he's been smoking something straight out of a Philip K. Dick universe. When he wakes up from a blackout as the suspect in his boss's murder, he has his answer—the party's over, and the fight for Chuck's life has begun.

Of Things Invisible to Mortal Sight

NEW YORK TIMES BESTSELLER THIRTEEN EXTRAORDINARY ESSAYS SHED NEW LIGHT ON THE MYSTERIES OF THE UNIVERSE—AND ON ONE OF THE MOST BRILLIANT THINKERS OF OUR TIME. In his phenomenal bestseller *A Brief History of Time*, Stephen Hawking literally transformed the way we think about physics, the

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universe, reality itself. In these thirteen essays and one remarkable extended interview, the man widely regarded as the most brilliant theoretical physicist since Einstein returns to reveal an amazing array of possibilities for understanding our universe. Building on his earlier work, Hawking discusses imaginary time, how black holes can give birth to baby universes, and scientists' efforts to find a complete unified theory that would predict everything in the universe. With his characteristic mastery of language, his sense of humor and commitment to plain speaking, Stephen Hawking invites us to know him better—and to share his passion for the voyage of intellect and imagination that has opened new ways to understanding the very nature of the cosmos. From the Trade Paperback edition.

Death by Black Hole: And Other Cosmic Quandaries

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

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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.

Quantum

Examines such phenomena as black holes, wormholes, singularities, gravitational waves, and time machines, exploring the fundamental principles that control the universe.

Summary of Neil Degrasse Tyson's Death by Black Hole

Here is the essential companion to *Welcome to the Universe*, a New York Times bestseller that was inspired by the enormously popular introductory astronomy course for non science majors that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton. This problem book features more than one hundred problems and exercises used in the original course—ideal for anyone who wants to deepen their understanding of the original material and to learn to

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think like an astrophysicist. Whether you're a student or teacher, citizen scientist or science enthusiast, your guided tour of the cosmos just got even more hands-on with *Welcome to the Universe: The Problem Book*. The essential companion book to the acclaimed bestseller *Features the problems used in the original introductory astronomy course for non science majors at Princeton University* Organized according to the structure of *Welcome to the Universe*, empowering readers to explore real astrophysical problems that are conceptually introduced in each chapter Problems are designed to stimulate physical insight into the frontier of astrophysics Problems develop quantitative skills, yet use math no more advanced than high school algebra Problems are often multipart, building critical thinking and quantitative skills and developing readers' insight into what astrophysicists do Ideal for course use—either in tandem with *Welcome to the Universe* or as a supplement to courses using standard astronomy textbooks—or self-study Tested in the classroom over numerous semesters for more than a decade Prefaced with a review of relevant concepts and equations Full solutions and explanations are provided, allowing students and other readers to check their own understanding

My Heart and Other Black Holes

A girl's friendship with a lonely black hole leads her to face her own sadness in this original, funny, and touching middle grade novel for fans of *Crenshaw* and *Flora & Ulysses*. When eleven-year-old Stella Rodriguez shows up at NASA to request that

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her recording be included in Carl Sagan's Golden Record, something unexpected happens: A black hole follows her home, and sets out to live in her house as a pet. The black hole swallows everything he touches, which is challenging to say the least—but also turns out to be a convenient way to get rid of those items that Stella doesn't want around. Soon the ugly sweaters her aunt has made for her all disappear within the black hole, as does the smelly class hamster she's taking care of, and most important, all the reminders of her dead father that are just too painful to have around. It's not until Stella, her younger brother, Cosmo, the family puppy, and even the bathroom tub all get swallowed up by the black hole that Stella comes to realize she has been letting her own grief consume her. And that's not the only thing she realizes as she attempts to get back home. This is an astonishingly original and funny adventure with a great big heart.

Death by Black Hole: And Other Cosmic Quandaries

A collection of essays on the cosmos, written by an American Museum of Natural History astrophysicist, includes "Holy Wars," "Ends of the World," and "Hollywood Nights."

Welcome to the Universe

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The search for life on Mars—and the moral issues confronting us as we prepare to send humans there Does life exist on Mars? The question has captivated humans for centuries, but today it has taken on new urgency. As space agencies gear up to send the first manned missions to the Red Planet, we have a responsibility to think deeply about what kinds of life may already dwell there—and whether we have the right to invite ourselves in. Telling the complete story of our ongoing quest to answer one of the most tantalizing questions in astronomy, David Weintraub grapples with the profound moral and ethical questions confronting us as we prepare to introduce an unpredictable new life form—ourselves—into the Martian biosphere. Now with an afterword that discusses the most recent discoveries, Life on Mars explains what we need to know before we go.

The Five Ages of the Universe

The New York Times bestselling tour of the cosmos from three of today's leading astrophysicists Welcome to the Universe is a personal guided tour of the cosmos by three of today's leading astrophysicists. Inspired by the enormously popular introductory astronomy course that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton, this book covers it all—from planets, stars, and galaxies to black holes, wormholes, and time travel. Describing the latest discoveries in astrophysics, the informative and entertaining narrative propels you from our home solar system to the outermost frontiers of space. How

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do stars live and die? Why did Pluto lose its planetary status? What are the prospects of intelligent life elsewhere in the universe? How did the universe begin? Why is it expanding and why is its expansion accelerating? Is our universe alone or part of an infinite multiverse? Answering these and many other questions, the authors open your eyes to the wonders of the cosmos, sharing their knowledge of how the universe works. Breathtaking in scope and stunningly illustrated throughout, *Welcome to the Universe* is for those who hunger for insights into our evolving universe that only world-class astrophysicists can provide.

The 4 Percent Universe

The New York Times bestseller: "You gotta read this. It is the most exciting book about Pluto you will ever read in your life." —Jon Stewart When the Rose Center for Earth and Space at the American Museum of Natural History reclassified Pluto as an icy comet, the New York Times proclaimed on page one, "Pluto Not a Planet? Only in New York." Immediately, the public, professionals, and press were choosing sides over Pluto's planethood. Pluto is entrenched in our cultural and emotional view of the cosmos, and Neil deGrasse Tyson, award-winning author and director of the Rose Center, is on a quest to discover why. He stood at the heart of the controversy over Pluto's demotion, and consequently Plutophiles have freely shared their opinions with him, including endless hate mail from third-graders. With his inimitable wit, Tyson delivers a minihistory of planets, describes the

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oversized characters of the people who study them, and recounts how America's favorite planet was ousted from the cosmic hub.

Black Holes, White Dwarfs, and Neutron Stars

Neil deGrasse Tyson's #1 New York Times best-selling guide to the cosmos, adapted for young readers. From the basics of physics to big questions about the nature of space and time, celebrated astrophysicist and science communicator Neil deGrasse Tyson breaks down the mysteries of the cosmos into bite-sized pieces. *Astrophysics for Young People in a Hurry* describes the fundamental rules and unknowns of our universe clearly—and with Tyson's characteristic wit, there's a lot of fun thrown in, too. This adaptation by Gregory Mone includes full-color photos, infographics, and extra explanations to make even the trickiest concepts accessible. Building on the wonder inspired by outer space, *Astrophysics for Young People in a Hurry* introduces an exciting field and the principles of scientific inquiry to young readers.

Space Chronicles: Facing the Ultimate Frontier

Albert Einstein's theory of general relativity describes the effect of gravitation on the shape of space and the flow of time. But for more than four decades after its

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publication, the theory remained largely a curiosity for scientists; however accurate it seemed, Einstein's mathematical code—represented by six interlocking equations—was one of the most difficult to crack in all of science. That is, until a twenty-nine-year-old Cambridge graduate solved the great riddle in 1963. Roy Kerr's solution emerged coincidentally with the discovery of black holes that same year and provided fertile testing ground—at long last—for general relativity. Today, scientists routinely cite the Kerr solution, but even among specialists, few know the story of how Kerr cracked Einstein's code. Fulvio Melia here offers an eyewitness account of the events leading up to Kerr's great discovery. *Cracking the Einstein Code* vividly describes how luminaries such as Karl Schwarzschild, David Hilbert, and Emmy Noether set the stage for the Kerr solution; how Kerr came to make his breakthrough; and how scientists such as Roger Penrose, Kip Thorne, and Stephen Hawking used the accomplishment to refine and expand modern astronomy and physics. Today more than 300 million supermassive black holes are suspected of anchoring their host galaxies across the cosmos, and the Kerr solution is what astronomers and astrophysicists use to describe much of their behavior. By unmasking the history behind the search for a real world solution to Einstein's field equations, Melia offers a first-hand account of an important but untold story. Sometimes dramatic, often exhilarating, but always attuned to the human element, *Cracking the Einstein Code* is ultimately a showcase of how important science gets done.

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StarTalk

Neil Shubin, the paleontologist and professor of anatomy who co-discovered Tiktaalik, the “fish with hands,” tells the story of our bodies as you've never heard it before. The basis for the PBS series. By examining fossils and DNA, he shows us that our hands actually resemble fish fins, our heads are organized like long-extinct jawless fish, and major parts of our genomes look and function like those of worms and bacteria. Your Inner Fish makes us look at ourselves and our world in an illuminating new light. This is science writing at its finest—enlightening, accessible and told with irresistible enthusiasm.

Black Holes: the Reith Lectures

A new window opens onto the cosmos Almost every day we are challenged by new information from the outermost reaches of space. Using straightforward language, One Universe explores the physical principles that govern the workings of our own world so that we can appreciate how they operate in the cosmos around us. Bands of color in a sunlit crystal and the spectrum of starlight in giant telescopes, the arc of a hard-hit baseball and the orbit of the moon, traffic patterns on a freeway and the spiral arms in a galaxy full of stars--they're all tied together in grand and simple ways. We can understand the vast cosmos in which we live by exploring

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three basic concepts: motion, matter, and energy. With these as a starting point, *One Universe* shows how the physical principles that operate in our kitchens and backyards are actually down-to-Earth versions of cosmic processes. The book then takes us to the limits of our knowledge, asking the ultimate questions about the origins and existence of life as we know it and where the universe came from--and where it is going. Glorious photographs--many seen for the first time in these pages--and original illustrations expand and enrich our understanding. Evocative and clearly written, *One Universe* explains complex ideas in ways that every reader can grasp and enjoy. This book captures the grandeur of the heavens while making us feel at home in the cosmos. Above all, it helps us realize that galaxies, stars, planets, and we ourselves all belong to One Universe.

Black Holes and Time Warps

The epic, behind-the-scenes story of an astounding gap in our scientific knowledge of the cosmos. In the past few years, a handful of scientists have been in a race to explain a disturbing aspect of our universe: only 4 percent of it consists of the matter that makes up you, me, our books, and every planet, star, and galaxy. The rest—96 percent of the universe—is completely unknown. Richard Panek tells the dramatic story of how scientists reached this conclusion, and what they're doing to find this "dark" matter and an even more bizarre substance called dark energy. Based on in-depth, on-site reporting and hundreds of interviews—with everyone

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from Berkeley's feisty Saul Perlmutter and Johns Hopkins's meticulous Adam Riess to the quietly revolutionary Vera Rubin—the book offers an intimate portrait of the bitter rivalries and fruitful collaborations, the eureka moments and blind alleys, that have fueled their search, redefined science, and reinvented the universe.

Big Bang

Ron Cowen offers a sweeping account of the century of experimentation that has consistently confirmed Einstein's general theory of relativity. He shows how we got from Eddington's pivotal observations of the 1919 eclipse to the Event Horizon Telescope, aimed at starlight wrapping around the black hole at our galaxy's center.

The Little Book of Black Holes

“Extraordinary.... A feast of history, an expert tour through thousands of years of war and conquest.” —Jennifer Carson, New York Times Book Review In this far-reaching foray into the millennia-long relationship between science and military power, acclaimed astrophysicist Neil deGrasse Tyson and co-author Avis Lang examine how the methods and tools of astrophysics have been enlisted in the service of war. Spanning early celestial navigation to satellite-enabled warfare,

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Accessory to War is a richly researched and provocative examination of the intersection of science, technology, industry, and power that will introduce Tyson's millions of fans to yet another dimension of how the universe has shaped our lives and our world.

A User's Guide to the Universe

A collection of essays on the cosmos, written by an American Museum of Natural History astrophysicist, includes "Holy Wars," "Ends of the World," and "Hollywood Nights."

Death by Black Hole

Answers to science's most enduring questions from "Can I break the light-speed barrier like on Star Trek?" and "Is there life on other planets?" to "What is empty space made of?" This is an indispensable guide to physics that offers readers an overview of the most popular physics topics written in an accessible, irreverent, and engaging manner while still maintaining a tone of wry skepticism. Even the novice will be able to follow along, as the topics are addressed using plain English and (almost) no equations. Veterans of popular physics will also find their nagging questions addressed, like whether the universe can expand faster than light, and

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for that matter, what the universe is expanding into anyway. Gives a one-stop tour of all the big questions that capture the public imagination including string theory, quantum mechanics, parallel universes, and the beginning of time Explains serious science in an entertaining, conversational, and easy-to-understand way Includes dozens of delightfully groan-worthy cartoons that explain everything from special relativity to Dark Matter Filled with fascinating information and insights, this book will both deepen and transform your understanding of the universe.

Black Holes and Baby Universes and Other Essays

“A compelling appeal, at just the right time, for continuing to look up.”—Air & Space America’s space program is at a turning point. After decades of global primacy, NASA has ended the space-shuttle program, cutting off its access to space. No astronauts will be launched in an American craft, from American soil, until the 2020s, and NASA may soon find itself eclipsed by other countries’ space programs. With his signature wit and thought-provoking insights, Neil deGrasse Tyson—one of our foremost thinkers on all things space—illuminates the past, present, and future of space exploration and brilliantly reminds us why NASA matters now as much as ever. As Tyson reveals, exploring the space frontier can profoundly enrich many aspects of our daily lives, from education systems and the economy to national security and morale. For America to maintain its status as a global leader and a technological innovator, he explains, we must regain our

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enthusiasm and curiosity about what lies beyond our world. Provocative, humorous, and wonderfully readable, *Space Chronicles* represents the best of Tyson's recent commentary, including a must-read prologue on NASA and partisan politics. Reflecting on topics that range from scientific literacy to space-travel missteps, Tyson gives us an urgent, clear-eyed, and ultimately inspiring vision for the future.

Your Inner Fish

The authoritative story of the headline-making discovery of gravitational waves—by an eminent theoretical astrophysicist and award-winning writer. From the author of *How the Universe Got Its Spots* and *A Madman Dreams of Turing Machines*, the epic story of the scientific campaign to record the soundtrack of our universe. Black holes are dark. That is their essence. When black holes collide, they will do so unilluminated. Yet the black hole collision is an event more powerful than any since the origin of the universe. The profusion of energy will emanate as waves in the shape of spacetime: gravitational waves. No telescope will ever record the event; instead, the only evidence would be the sound of spacetime ringing. In 1916, Einstein predicted the existence of gravitational waves, his top priority after he proposed his theory of curved spacetime. One century later, we are recording the first sounds from space, the soundtrack to accompany astronomy's silent movie. In *Black Hole Blues and Other Songs from Outer Space*,

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Janna Levin recounts the fascinating story of the obsessions, the aspirations, and the trials of the scientists who embarked on an arduous, fifty-year endeavor to capture these elusive waves. An experimental ambition that began as an amusing thought experiment, a mad idea, became the object of fixation for the original architects—Rai Weiss, Kip Thorne, and Ron Drever. Striving to make the ambition a reality, the original three gradually accumulated an international team of hundreds. As this book was written, two massive instruments of remarkably delicate sensitivity were brought to advanced capability. As the book draws to a close, five decades after the experimental ambition began, the team races to intercept a wisp of a sound with two colossal machines, hoping to succeed in time for the centenary of Einstein's most radical idea. Janna Levin's absorbing account of the surprises, disappointments, achievements, and risks in this unfolding story offers a portrait of modern science that is unlike anything we've seen before. From the Hardcover edition.

Life on Mars

It's only a matter of time before a cosmic disaster spells the end of the Earth. But how concerned should we be about any of these catastrophic scenarios? And if they do pose a danger, can anything be done to stop them?

The Death of Vishnu

"It is said that fact is sometimes stranger than fiction, and nowhere is that more true than in the case of black holes. Black holes are stranger than anything dreamed up by science fiction writers." In 2016 Professor Stephen Hawking delivered the BBC Reith Lectures on a subject that has fascinated him for decades - black holes. In these flagship lectures the legendary physicist argues that if we could only understand black holes and how they challenge the very nature of space and time, we could unlock the secrets of the universe.

Cracking the Einstein Code

This illustrated companion to the popular podcast and National Geographic Channel show is an eye-opening journey for anyone curious about our universe, space, astronomy and the complexities of the cosmos. For decades, beloved astrophysicist Neil deGrasse Tyson has interpreted science with a combination of brainpower and charm that resonates with fans everywhere. This pioneering, provocative book brings together the best of StarTalk, his beloved podcast and television show devoted to solving the most confounding mysteries of Earth, space, and what it means to be human. Filled with brilliant sidebars, vivid photography, and unforgettable quotes from Tyson and his brilliant cohort of science and

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entertainment luminaries, StarTalk will help answer all of your most pressing questions about our world—from how the brain works to the physics of comic book superheroes. Fun, smart, and laugh-out-loud funny, this book is the perfect guide to everything you ever wanted to know about the universe—and beyond.

Black Hole

PLEASE NOTE: This is a summary, analysis and review of the book and not the original book. Beloved astrophysicist Neil deGrasse Tyson debunks common myths and breaks down physics into terms any person can understand in his bestselling book, "Death by Black Hole: And Other Cosmic Quandaries." This SUMOREADS Summary & Analysis offers supplementary material to "Death by Black Hole" to help you distill the key takeaways, review the book's content, and further understand the writing style and overall themes from an editorial perspective. Whether you'd like to deepen your understanding, refresh your memory, or simply decide whether or not this book is for you, SUMOREADS Summary & Analysis is here to help. Absorb everything you need to know in under 20 minutes! What does this SUMOREADS Summary & Analysis Include? An Executive Summary of the original book Editorial Review Key takeaways & analysis Brief chapter summaries A short bio of the the author Original Book Summary Overview Neil deGrasse Tyson tackles the oldest questions of the universe: how did it all come to be? What is it made of? And last, but not least, what is our place in the history of the cosmos? In

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his best-selling book, "Death by Black Hole," Tyson takes you on a journey through time and space, explaining scientific theories like the Big Bang in a simple, witty tone that will keep you glued to every page. BEFORE YOU BUY: The purpose of this SUMOREADS Summary & Analysis is to help you decide if it's worth the time, money and effort reading the original book (if you haven't already). SUMOREADS has pulled out the essence-but only to help you ascertain the value of the book for yourself. This analysis is meant as a supplement to, and not a replacement for, "Death by Black Hole."

Astrophysics for Young People in a Hurry

A collection of essays on the cosmos, written by an American Museum of Natural History astrophysicist, includes "Holy Wars," "Ends of the World," and "Hollywood Nights."

Death from the Skies!

A half century ago, a shocking Washington Post headline claimed that the world began in five cataclysmic minutes rather than having existed for all time; a skeptical scientist dubbed the maverick theory the Big Bang. In this amazingly comprehensible history of the universe, Simon Singh decodes the mystery behind

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the Big Bang theory, leading us through the development of one of the most extraordinary, important, and awe-inspiring theories in science.

The Pluto Files: The Rise and Fall of America's Favorite Planet

Dr James Grotstein (1925-2015) was the foremost Bion scholar, and one of the most noted and honoured psychoanalysts in the world. His prolific writings and generous encouragement to other analysts has had an enormous impact. He was among the first to examine Bion's most controversial concept - O - in particular the mystical aspects of O. The title of this book, *Of Things Invisible To Mortal Sight: A Celebration of the Work of James S. Grotstein*, inspired by a line from Milton's *Paradise Lost* (Book III), reflects Grotstein's decades-long examination of the most profound aspects of the human mind. Dr James Grotstein's erudition and depth of understanding made him one of the most revered psychoanalysts throughout the psychoanalytic world. He was well known and appreciated for his prolific writings, so it was only fitting to honour him through writing, and the fifteen articles in *Of Things Invisible To Mortal Sight* are written by esteemed analysts from Italy, Brazil, Argentina, Israel, and throughout the United States.

Welcome to the Universe

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What happens when something is sucked into a black hole? Does it disappear? Three decades ago, a young physicist named Stephen Hawking claimed it did-and in doing so put at risk everything we know about physics and the fundamental laws of the universe. Most scientists didn't recognize the import of Hawking's claims, but Leonard Susskind and Gerard t'Hooft realized the threat, and responded with a counterattack that changed the course of physics. THE BLACK HOLE WAR is the thrilling story of their united effort to reconcile Hawking's revolutionary theories of black holes with their own sense of reality-effort that would eventually result in Hawking admitting he was wrong, paying up, and Susskind and t'Hooft realizing that our world is a hologram projected from the outer boundaries of space. A brilliant book about modern physics, quantum mechanics, the fate of stars and the deep mysteries of black holes, Leonard Susskind's account of the Black Hole War is mind-bending and exhilarating reading.

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