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By the star physicist and author of multiple #1 Sunday Times bestsellers, a major and definitive narrative work on black holes and how they can help us understand the universe. At the heart of our galaxy lies a monster so deadly it can bend space, throwing vast jets of radiation millions of light years out into the cosmos. Its kind were the very first inhabitants of the universe, the black holes. Today, across the universe, at the heart of every galaxy, and dotted throughout, mature black holes are creating chaos. And in a quiet part of the universe, the Swift satellite has picked up evidence of a gruesome death caused by one of these dark powers. High energy X-ray flares shooting out from deep within the Draco constellation are thought to be the dying cries of a white dwarf star being ripped apart by the intense tides of a supermassive black hole – heating it to millions of degrees as it is shredded at the event horizon. They have the power to wipe out any of the universe’s other inhabitants, but no one has ever seen a black hole itself die. But 1.8 billion light years away, the LIGO instruments have recently detected something that could be the closest a black hole gets to death. Gravitational waves given off as two enormous black holes merge together. And now scientists think that these gravitational waves could be evidence of two black holes connecting to form a wormhole – a link through space and time. It seems outlandish, but today’s physicists are daring to think the unthinkable – that black holes could connect us to another universe. At their very heart, black holes are also where Einstein’s Theory of General Relativity is stretched in almost unimaginable ways, revealing black holes as the key to our understanding of the fundamentals of our universe and perhaps all other universes. Join Professors Brian Cox and Jeff Forshaw in exploring our universe’s most mysterious inhabitants, how they are formed, why they are essential components of every galaxy, including our own, and what secrets they still hold, waiting to be discovered. "From your brain to your fingertips, you emerge from her book entertained and with a deeper understanding of yourself" --Richard Dawkins Alice Roberts takes you on the most incredible journey, revealing your path from a single cell to a complex embryo to a living, breathing, thinking person. It's a story that connects us with our distant ancestors and an extraordinary, unlikely chain of events that shaped human development and left a mark on all of us. Alice Roberts uses the latest research to uncover the evolutionary history hidden in all of us, from the secrets found only in our embryos and genes - including why as embryos we have what look like gills - to those visible in your anatomy. This is a tale of discovery, exploring why and how we have developed as we have. This is your story, told as never before. Professor Brian Cox is among the best-known physicists in the world. As presenter of hit television series Human Universe, Wonders of the Solar System and Wonders of the Universe, his affable charm and infectious enthusiasm have brought science to a whole new audience. Born in Lancashire in 1968, Cox was a bright but not brilliant pupil at school. He flourished at university, however, gaining a first-class honours degree and an MPhil in PhysiME from Manchester University before being awarded his PhD in particle physiME in 1998. Alongside his studies, he played keyboards in the band D:Ream, who topped the charts in 1994 with 'Things Can Only Get Better', which was famously used by the Labour Party for its 1997 election campaign. Although an award-winning celebrity TV presenter, Brian Cox remains devoted to scientific research. He is a Royal Society University Research Fellow, an advanced fellow at the University of Manchester, and also works on the ATLAS experiment at the Large Hadron Collider at CERN in Switzerland. In 2010 he was awarded the OBE for his services to science. Featuring exclusive interviews and in-depth research, this book delves into the fascinating universe of the man who single-handedly made physiME cool. Please note: This is a companion version & not the original book. Sample Book Insights: #1 The word quantum is evocative, bewildering, and fascinating. It is a testament to the success of science, but it is also a symbol of the limited scope of human intuition as we struggle with the inescapable strangeness of the subatomic domain. #2 The world around us is made up of atoms, and the more we understand about the elemental nature of the world, the simpler it seems. The rules of the game are simple, but their consequences are not always easy to calculate. #3 Quantum theory was precipitated by the discovery of natural phenomena that could not be explained by the scientific paradigms of the time. It was a period of experimental and theoretical innovation that truly deserves to be called a golden age. #4 The term ‘quantum’ was first used in 1900 by Max Planck to describe the radiation emitted by hot objects. He found that he could only explain the properties of black body radiation if he assumed that light is emitted in little packets of energy. "The Infinite Monkey Cage, the legendary BBC Radio 4 programme, brings you this irreverent celebration of scientific marvels. Join us on a hectic leap through the grand and bizarre ideas conjured up by human imagination, from dark matter to consciousness via neutrinos and earthworms. Professor Brian Cox and Robin Ince muse on multifaceted subjects involved in building a universe, with pearls of wisdom from leading scientists and comedians peppered throughout. Covering billions of concepts and conundrums, they tackle everything from the Big Bang to parallel universes, fierce creatures to extraterrestrial life, brain science to artificial intelligence. How to Build a Universe is an illuminating and inspirational celebration of science - sometimes silly, sometimes astounding and very occasionally facetious." --Publisher description. Journey from Earth to the outer reaches of the universe with this stunning book about space! You'll encounter bizarre planets, distant stars, and intricate galaxies. From planets and asteroids to black holes and galaxies, every page of this captivating book reveals the secrets behind more than 100 celestial objects. Get ready to explore fun facts and exciting new scientific discoveries! For centuries, the mysteries of space have captured our imaginations. This picture book will illuminate imaginations and spark curious minds to explore the vastness of space. Take your little astronaut on a journey from our planet out into the furthest reaches of the universe! Filled with gorgeous illustrations and incredible photography, young readers will be intrigued by the detailed close-up images of each celestial body. The engaging storybook-style descriptions and simple text shed a light on facts, myths, and key discoveries about the universe. Explore the wonders of our solar system and beyond. This

educational book also includes reference pages packed with fascinating information. Journey Through the Vastness of Space Join us on an adventure across the universe, as we rocket to the stars! Discover 100 objects from the universe, arranged from the closest to our planet to the ones the furthest away. Storybook-style text and out-of-this-world pictures make this book perfect for an astronomical bedtime. It's also a fantastic gift for children who can't get enough of space. Grab your spacesuit and put your helmet on! Inside the pages of this adventure book, you'll find:

- Beautiful illustrations and incredible photography that showcase the mysteries of space.
- Discover 100 remarkable objects in the cosmos.
- Engaging storybook-style descriptions that explain key discoveries about the universe.

More to Explore Once you've discovered The Mysteries of the Universe, dive into the companion titles from this series from DK Books! The Wonders of Nature explores more than 100 items from the natural world and An Anthology of Intriguing Animals showcases animals around the world. The world of science has been transformed. Where once astronomers sat at the controls of giant telescopes in remote locations, praying for clear skies, now they have no need to budge from their desks, as data arrives in their inbox. And what they receive is overwhelming; projects now being built provide more data in a few nights than in the whole of humanity's history of observing the Universe. It's not just astronomy either - dealing with this deluge of data is the major challenge for scientists at CERN, and for biologists who use automated cameras to spy on animals in their natural habitats. Artificial intelligence is one part of the solution - but will it spell the end of human involvement in scientific discovery? No, argues Chris Lintott. We humans still have unique capabilities to bring to bear - our curiosity, our capacity for wonder, and, most importantly, our capacity for surprise. It seems that humans and computers working together do better than computers can on their own. But with so much scientific data, you need a lot of scientists - a crowd, in fact. Lintott found such a crowd in the Zooniverse, the web-based project that allows hundreds of thousands of enthusiastic volunteers to contribute to science. In this book, Lintott describes the exciting discoveries that people all over the world have made, from galaxies to pulsars, exoplanets to moons, and from penguin behaviour to old ship's logs. This approach builds on a long history of so-called 'citizen science', given new power by fast internet and distributed data. Discovery is no longer the remit only of scientists in specialist labs or academics in ivory towers. It's something we can all take part in. As Lintott shows, it's a wonderful way to engage with science, yielding new insights daily. You, too, can help explore the Universe in your lunch hour. A deeply fascinating, engaging, and highly accessible explanation of Einstein's equation, using everyday life to explore the principles of physics. Top ten Sunday Times Bestseller 'Engaging, ambitious and creative' Guardian Where are we? Are we alone? Who are we? Why are we here? What is our future? NEW YORK TIMES BESTSELLER

- A captivating exploration of deep time and humanity's search for purpose, from the world-renowned physicist and best-selling author of The Elegant Universe. "Few humans share Greene's mastery of both the latest cosmological science and English prose." —The New York Times Until the End of Time is Brian Greene's breathtaking new exploration of the cosmos and our quest to find meaning in the face of this vast expanse. Greene takes us on a journey from the big bang to the end of time, exploring how lasting structures formed, how life and mind emerged, and how we grapple with our existence through narrative, myth, religion, creative expression, science, the quest for truth, and a deep longing for the eternal. From particles to planets, consciousness to creativity, matter to meaning—Brian Greene allows us all to grasp and appreciate our fleeting but utterly exquisite moment in the cosmos. 'Clear and compact ... It's hard to fault as a brief, easily digestible introduction to some of the biggest questions in the Universe' Giles Sparrow, BBC Four's The Sky at Night , Best astronomy and space books of 2019: 5/5 All the matter and light we can see in the universe makes up a trivial 5 per cent of everything. The rest is hidden. This could be the biggest puzzle that science has ever faced. Since the 1970s, astronomers have been aware that galaxies have far too little matter in them to account for the way they spin around: they should fly apart, but something concealed holds them together. That 'something' is dark matter - invisible material in five times the quantity of the familiar stuff of stars and planets. By the 1990s we also knew that the expansion of the universe was accelerating. Something, named dark energy, is pushing it to expand faster and faster. Across the universe, this requires enough energy that the equivalent mass would be nearly fourteen times greater than all the visible material in existence. Brian Clegg explains this major conundrum in modern science and looks at how scientists are beginning to find solutions to it. The Infinite Monkey Cage, the legendary BBC Radio 4 programme, brings you this irreverent celebration of scientific marvels. Join us on a hectic leap through the grand and bizarre ideas conjured up by human imagination, from dark matter to consciousness via neutrinos and earthworms. Sunday Times Bestseller How did life on Earth begin? What is the nature of space and time? What are the chances that we will discover life on other worlds? How did a near-extinct species, eking out a meager existence with stone axes, become the dominant power on earth, able to harness a knowledge of nature ranging from tiny atoms to the vast structures of the universe? Leonard Mlodinow takes us on an enthralling tour of the history of human progress, from our time on the African savannah through the invention of written language, all the way to modern quantum physics. Along the way, he explores the colorful personalities of the great philosophers, scientists, and thinkers, and traces the cultural conditions—and the elements of chance—that influenced scientific discovery. Deeply informed, accessible, and infused with the author's trademark humor and insight, The Upright Thinkers is a stunning tribute to humanity's intellectual curiosity and an important book for any reader with an interest in the scientific issues of our day. "Cox brings a magical enchantment to this life-changing book. . . . I swear that you will never be the same again after you turn the last page of this unique and irresistible book." —Sunday Express (London) Experience the cosmos as never before with Brian Cox's Wonders of the Universe, a gorgeously illustrated, full-color companion to his wildly popular miniseries on the Discovery Channel and BBC. Breathtaking images brighten Cox's enthralling exploration of the fascinating science and overwhelming majesty of natural phenomena from ocean currents to black holes. Cox, called "Carl Sagan with a Britpop haircut" by the Los Angeles Times, follows in the footsteps of Stephen Hawking and Brian Greene in this riveting and dynamic tour through the Wonders

of the Universe. Finalist for the National Book Critics Circle Award: the "intensely exciting" story of a group of brilliant scientists who set out to answer the deepest questions about the origin of the universe and changed the course of physics and astronomy forever (Newsday). In southern California, nearly a half century ago, a small band of researchers — equipped with a new 200-inch telescope and a faith born of scientific optimism — embarked on the greatest intellectual adventure in the history of humankind: the search for the origin and fate of the universe. Their quest would eventually engulf all of physics and astronomy, leading not only to the discovery of quasars, black holes, and shadow matter but also to fame, controversy, and Nobel Prizes. Lonely Hearts of the Cosmos tells the story of the men and women who have taken eternity on their shoulders and stormed nature in search of answers to the deepest questions we know to ask. "Written with such wit and verve that it is hard not to zip through in one sitting." —Washington Post An awe-inspiring, unforgettable journey of scientific exploration from Brian Cox and Jeff Forshaw, the international bestselling authors of Why Does $E=MC^2$? and The Quantum Universe, with 55 black-&-white and 45 full-color pages featuring photographs, diagrams, maps, tables, and graphs We dare to imagine a time before the Big Bang, when the entire universe was compressed into a space smaller than an atom. And now, as Brian Cox and Jeff Forshaw show, we can do more than imagine: we can understand. Universal takes us on an epic journey of scientific exploration. It reveals how we can all come to grips with some of the most fundamental questions about our Earth, Sun, and solar system--and the star-filled galaxies beyond. How big is our solar system? How quickly is space expanding? How big is the universe? What is it made of? Some of these questions can be answered on the basis of observations you can make in your own backyard. Other answers draw on the astonishing information now being gathered by teams of astronomers operating at the frontiers of the known universe. At the heart of all this lies the scientific method. Science reveals a deeper beauty and connects us to each other, to our world, and to our universe. Science reaches out into the unknown. As Universal demonstrates, if we dare to imagine, we can do the same. Every night, above our heads, a drama of epic proportions is playing out. Diamond planets, zombie stars, black holes heavier than a billion Suns. The cast of characters is extraordinary, and each one has its own incredible story to tell. We once thought of our Earth as unique, but we have now discovered thousands of alien planets, and that's barely a fraction of the worlds that are out there. And there are more stars in the Universe than grains of sand on every planet in the Solar System. But amid all this vastness, the Milky Way Galaxy, our Sun and the Earth are home to the only known life in the Universe - at least for now. With a foreword from Professor Brian Cox, and access to all the latest stunning NASA photography, Andrew Cohen takes readers on a voyage of discovery, via the probes and telescopes exploring the outer reaches of our galaxy, revealing how it was formed and how it will inevitably be destroyed by the enigmatic black hole at its heart. And beyond our galaxy, the expanding Universe, which holds clues to the biggest mystery of all - how did it all begin? We now know more about those first moments of existence than we ever thought possible, and hidden in this story of how it all began are the clues to the fate of the Universe itself and everything in it. The methods used in the detection and characterisation of exoplanets are presented in this unique textbook for advanced undergraduates. #1 NEW YORK TIMES BESTSELLER • The epic story of the greatest quest in all of science—the holy grail of physics that would explain the creation of the universe—from renowned theoretical physicist and author of The Future of the Mind and The Future of Humanity When Newton discovered the law of gravity, he unified the rules governing the heavens and the Earth. Since then, physicists have been placing new forces into ever-grander theories. But perhaps the ultimate challenge is achieving a monumental synthesis of the two remaining theories—relativity and the quantum theory. This would be the crowning achievement of science, a profound merging of all the forces of nature into one beautiful, magnificent equation to unlock the deepest mysteries in science: What happened before the Big Bang? What lies on the other side of a black hole? Are there other universes and dimensions? Is time travel possible? Why are we here? Kaku also explains the intense controversy swirling around this theory, with Nobel laureates taking opposite sides on this vital question. It is a captivating, gripping story; what's at stake is nothing less than our conception of the universe. Written with Kaku's trademark enthusiasm and clarity, this epic and engaging journey is the story of The God Equation. In The Quantum Universe, Brian Cox and Jeff Forshaw approach the world of quantum mechanics in the same way they did in Why Does $E=mc^2$? and make fundamental scientific principles accessible—and fascinating—to everyone. The subatomic realm has a reputation for weirdness, spawning any number of profound misunderstandings, journeys into Eastern mysticism, and woolly pronouncements on the interconnectedness of all things. Cox and Forshaw's contention? There is no need for quantum mechanics to be viewed this way. There is a lot of mileage in the "weirdness" of the quantum world, and it often leads to confusion and, frankly, bad science. The Quantum Universe cuts through the Wu Li and asks what observations of the natural world made it necessary, how it was constructed, and why we are confident that, for all its apparent strangeness, it is a good theory. The quantum mechanics of The Quantum Universe provide a concrete model of nature that is comparable in its essence to Newton's laws of motion, Maxwell's theory of electricity and magnetism, and Einstein's theory of relativity. From the hosts of the legendary BBC Radio 4 program 'The Infinite Monkey Cage' comes this irreverent celebration of scientific marvels - a hectic leap through the grand and bizarre ideas conjured up by human imagination, from dark matter to consciousness via neutrinos and earthworms. The Infinite Monkey Cage, the legendary BBC Radio 4 programme, brings you this irreverent celebration of scientific marvels. Join us on a hectic leap through the grand and bizarre ideas conjured up by human imagination, from dark matter to consciousness via neutrinos and earthworms. Every night, above our heads, a drama of epic proportions is playing out. Diamond planets, zombie stars, black holes heavier than a billion Suns. The cast of characters is extraordinary, and each one has its own incredible story to tell. A House Without Walls is a powerful story of family, hope and redemption amidst the refugee crisis in Syria from the award-winning Elizabeth Laird, illustrated by Lucy Eldridge. Thirteen-year-old Safiya and her family have been driven out of Syria by civil war. Safiya knows how lucky she is – lucky not to be living in a refugee camp, lucky to be

alive. But it's hard to feel grateful when she's forced to look after her father and brother rather than go back to school, and now that she's lost her home, she's lonelier than ever. As they struggle to rebuild their lives, Safiya realizes that her family has always been incomplete and with her own future in the balance, it's time to uncover the secrets that war has kept buried. The Infinite Monkey Cage, the legendary BBC Radio 4 programme, brings you this irreverent celebration of scientific marvels. Join us on a hectic leap through the grand and bizarre ideas conjured up by human imagination, from dark matter to consciousness via neutrinos and earthworms. Collins Shorts – insight in an instant. Ecology is the science of ecosystems, of habitats, of our world and its future. In the latest New Naturalist, ecologist David M. Wilkinson explains key ideas of this crucial branch of science, using Britain's ecosystems to illustrate each point. The idea of a missing link between humanity and our animal ancestors predates evolution and popular science and actually has religious roots in the deist concept of the Great Chain of Being. Yet, the metaphor has lodged itself in the contemporary imagination, and new fossil discoveries are often hailed in headlines as revealing the elusive transitional step, the moment when we stopped being "animal" and started being "human." In *The Accidental Species*, Henry Gee, longtime paleontology editor at Nature, takes aim at this misleading notion, arguing that it reflects a profound misunderstanding of how evolution works and, when applied to the evolution of our own species, supports mistaken ideas about our own place in the universe. Gee presents a robust and stark challenge to our tendency to see ourselves as the acme of creation. Far from being a quirk of religious fundamentalism, human exceptionalism, Gee argues, is an error that also infects scientific thought. Touring the many features of human beings that have recurrently been used to distinguish us from the rest of the animal world, Gee shows that our evolutionary outcome is one possibility among many, one that owes more to chance than to an organized progression to supremacy. He starts with bipedality, which he shows could have arisen entirely by accident, as a by-product of sexual selection, moves on to technology, large brain size, intelligence, language, and, finally, sentience. He reveals each of these attributes to be alive and well throughout the animal world—they are not, indeed, unique to our species. *The Accidental Species* combines Gee's firsthand experience on the editorial side of many incredible paleontological findings with healthy skepticism and humor to create a book that aims to overturn popular thinking on human evolution—the key is not what's missing, but how we're linked. Have you ever wondered how our universe began? Or what it takes to put humans on the moon? Do you know what happens in the microscopic world of a life-saving vaccine? What would you do if you could travel through space and time? Embark on the adventure of a lifetime in this beautiful collection of up-to-the-minute essays, mind-blowing facts and out-of-this-world colour photographs, by the world's leading scientists including Professor Stephen Hawking himself. This edition features brand-new content from Dr Mary Dobson: *Plagues, Pandemics and Planetary Health*. This unmissable volume was curated by Stephen and Lucy Hawking, whose series of children's books *George's Secret Key* was a global hit. George's stories are punctuated with fascinating real-life facts and insights from leading scientists and now this incredible non-fiction has been collected into one bumper volume, with new content from key scientific figures and up-to-the-minute facts and figures for readers in 2021. READERS LOVE UNLOCKING THE UNIVERSE: "Despite its scientific content the essays are written in a very accessible style and the many topics investigated which range from the physical explanations of the universe to earth science to robotics and future predictions. Highly recommended for curious minds from around 10 years upwards" - Sue Warren, Blogger "My 9 y.o. loves this book. We've previously discussed a lot of the concepts, but this seems to answer questions I hadn't thought of, but my son wanted to know" "Even-handed, up-to-date, and clearly written. . . . If you want to navigate between the Scylla and Charybdis of Neanderthal controversies, you'll find no better guide." —Brian Fagan, author of *Cro-Magnon* In recent years, the common perception of the Neanderthal has been transformed thanks to new discoveries and paradigm-shattering scientific innovations. It turns out that the Neanderthals' behavior was surprisingly modern: they buried the dead, cared for the sick, hunted large animals in their prime, harvested seafood, and spoke. Meanwhile, advances in DNA technologies have forced a reassessment of the Neanderthals' place in our own past. For hundreds of thousands of years, Neanderthals evolved in Europe very much in parallel to the *Homo sapiens* line evolving in Africa, and, when both species made their first forays into Asia, the Neanderthals may even have had the upper hand. Here, Dimitra Papagianni and Michael A. Morse look at the Neanderthals through the full dramatic arc of their existence—from their evolution in Europe to their expansion to Siberia, their subsequent extinction, and ultimately their revival in popular novels, cartoons, cult movies, and TV commercials. This enhanced ebook edition contains exclusive video of Professor Cox elaborating on each chapter in detail. In *Wonders of the Solar System* – the book of the acclaimed BBC TV series – Professor Brian Cox takes us on a journey of discovery where alien worlds from your imagination become places we can see, feel and visit. Taking readers on a breathtaking visual and scientific adventure, renowned physicist Brian Cox reveals the Solar System as you have never seen it before: from Saturn's moons, where giant ice fountains spout into space and oceans are made of liquid methane, to Jupiter, where storms rage that are twice the size of Earth and giant super-volcanoes dominate its tortured moon of Io. Professor Cox takes you on a journey of discovery where alien worlds become places you can see and explore. He introduces you to the planets and moons beyond our world, finding the biggest and most bizarre and powerful natural phenomena. He visits some of the most spectacular and extreme locations here on Earth to unveil what our planet can reveal about the wonders of the Solar System. Employing his trademark authoritative yet down-to-earth approach, Brian explores how these previously unseen phenomena have dramatically expanded our horizons with new discoveries about the planets, their moons, and how they came to be the way they are. Includes 500 diagrams and full-color photographs The Sunday Times Bestseller In *Wonders of the Solar System* – the book of the acclaimed BBC TV series – Professor Brian Cox will take us on a journey of discovery where alien worlds from your imagination become places we can see, feel and visit. 'So staggering you go "whoa!" every few seconds' Guardian 'Really impressive' Eamonn Holmes, ITV This Morning A companion book to the critically acclaimed BBC series. The two

best selling books from Professor Brian Cox, bundled into one. In Wonders of Life: Exploring the Most Extraordinary Force in the Universe, the definitive companion to the Discovery Science Channel series, Professor Brian Cox takes us on an incredible journey to discover the most complex, diverse, and unique force in the universe: life itself. Through his voyage of discovery, international bestselling author Brian Cox explains how the astonishing inventiveness of nature came about and uncovers the milestones in the epic journey from the origin of life to our own lives, with beautiful full-color illustrations throughout. From spectacular fountains of superheated water at the bottom of the Atlantic to the deepest rainforest, Cox seeks out the places where the biggest questions about life may be answered: What is life? Why do we need water? Why does life end? Physicist and professor Brian Cox uncovers the secrets of life in the most unexpected locations and in the most stunning detail in this beautiful full-color volume. In one of the most exciting and accessible explanations of The Theory of Relativity in recent years, Professors Brian Cox and Jeff Forshaw go on a journey to the frontier of 21st century science to consider the real meaning behind the iconic sequence of symbols that make up Einstein's most famous equation, exploring the principles of physics through everyday life.

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