

# Buchi Neri Wormholes E Macchine Del Tempo

L'Europeo Pathfinders Quantum La fisica del diavolo What the Future Looks Like The World According to Physics Augmented Reality Art Paradox La mente nuova dell'imperatore Il ponte Black Holes and Time Warps Il Planiverso. Il computer e un mondo bidimensionale Black Holes, Wormholes and Time Machines, Second Edition Einstein's Enigma or Black Holes in My Bubble Bath Iperspazio. Un viaggio scientifico attraverso gli universi paralleli e le distorsioni del tempo e la decima dimensione Universo istruzioni per l'uso. Come sopravvivere a buchi neri, paradossi temporali e fluttuazioni quantistiche Quantum Mechanics (A Ladybird Expert Book) The Cosmic Doctrine The Physics Book Ripples On A Cosmic Sea The Grand Design In Search of the Edge of Time La trama della realtà Michael the Angel Pinocchio e la scienza Black Holes: the Reith Lectures The Little Book of Black Holes The Quantum World Molecole in mostra. La chimica nascosta nella vita quotidiana Gravity's Engines The Big Questions: The Universe Prima dell'inizio. Il nostro universo e gli altri Panorama Kos: cultura, medicina, scienze umane Divertirsi con la matematica. Curiosità e stranezze del mondo dei numeri Buchi neri, «wormholes» e macchine del tempo Inception The Physics of Star Trek The Fabric of the Cosmos Sunfall

**L'Europeo**

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

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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.

### **Pathfinders**

### **Quantum**

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

### **La fisica del diavolo**

Most people live and work entirely oblivious to the fact that a myriad of ghostly ripples are passing through them all the time. Generated in the depths of space by colliding stars and black holes, exploding supernovas and quasars, these so-called gravitational waves are literally ripples in the fabric of space itself. Sweeping across the cosmos at the speed of light, they encode vital clues about the exotic systems that produced them. Predicted by Einstein over eighty years ago, but never detected in the laboratory, gravitational waves have proven elusive to scientists. In the first book for a general reader on these amazing waves, Blair and McNamara weave a thrilling tale about the race to build the first gravitational wave antenna—a challenge that has prompted physicists and astronomers to devise some of the

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most breathtaking technology the world has ever seen. What these scientists find will allow us to listen to the explosion of stars, the creation of black holes, even the sound of the Big Bang itself, and will undoubtedly chart a new course for astronomy in the coming millennium.

### **What the Future Looks Like**

A fun and fascinating look at great scientific paradoxes. Throughout history, scientists have come up with theories and ideas that just don't seem to make sense. These we call paradoxes. The paradoxes Al-Khalili offers are drawn chiefly from physics and astronomy and represent those that have stumped some of the finest minds. For example, how can a cat be both dead and alive at the same time? Why will Achilles never beat a tortoise in a race, no matter how fast he runs? And how can a person be ten years older than his twin? With elegant explanations that bring the reader inside the mind of those who've developed them, Al-Khalili helps us to see that, in fact, paradoxes can be solved if seen from the right angle. Just as surely as Al-Khalili narrates the enduring fascination of these classic paradoxes, he reveals their underlying logic. In doing so, he brings to life a select group of the most exciting concepts in human knowledge. Paradox is mind-expanding fun.

### **The World According to Physics**

'Excellent, exactly how good science fiction should be-gripping story, beautifully told, while at the same time

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being scientifically well-informed.' tweeted RICHARD DAWKINS. 'Reminiscent of vintage Arthur C. Clarke . . . has a chilling, nail-biting authenticity' said JAMES LOVEGROVE in the Financial Times. From renowned theoretical physicist, broadcaster and author Jim Al-Khalili, comes this thrilling debut novel drawing on cutting-edge science and set in a near-future full of dazzling technologies. 2041 and the world as we know it grinds to a halt. Our planet seems to be turning against itself - it would appear that the magnetic field, that protects life on Earth from deadly radiation from space, is failing . . . Desperate to quell the mass hysteria that would surely follow, world governments have concealed this rapidly emerging Armageddon. But a young Iranian hacktivist stumbles across the truth, and it becomes a race against time to reactivate the earth's core using beams of dark matter. As a small team of brave and brilliant scientists battle to find a way of transforming theory into practice, they face a fanatical group intent on pursuing their own endgame agenda- for they believe mankind to be a plague upon this earth and will do anything, commit any crime, to ensure that the project fails . . . And so bring about humanity's end.

### **Augmented Reality Art**

#1 NEW YORK TIMES BESTSELLER When and how did the universe begin? Why are we here? What is the nature of reality? Is the apparent “grand design” of our universe evidence of a benevolent creator who set things in motion—or does science offer another explanation? In this startling and lavishly illustrated

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book, Stephen Hawking and Leonard Mlodinow present the most recent scientific thinking about these and other abiding mysteries of the universe, in nontechnical language marked by brilliance and simplicity. According to quantum theory, the cosmos does not have just a single existence or history. The authors explain that we ourselves are the product of quantum fluctuations in the early universe, and show how quantum theory predicts the “multiverse”—the idea that ours is just one of many universes that appeared spontaneously out of nothing, each with different laws of nature. They conclude with a riveting assessment of M-theory, an explanation of the laws governing our universe that is currently the only viable candidate for a “theory of everything”: the unified theory that Einstein was looking for, which, if confirmed, would represent the ultimate triumph of human reason.

### **Paradox**

### **La mente nuova dell'imperatore**

From Brian Greene, one of the world’s leading physicists and author of the Pulitzer Prize finalist *The Elegant Universe*, comes a grand tour of the universe that makes us look at reality in a completely different way. Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past? Greene has set

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himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. From Newton's unchanging realm in which space and time are absolute, to Einstein's fluid conception of spacetime, to quantum mechanics' entangled arena where vastly distant objects can instantaneously coordinate their behavior, Greene takes us all, regardless of our scientific backgrounds, on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world.

### **Il ponte**

This is a fascinating and enjoyable popular science book on gravity and black holes. It offers an absorbing account on the history of research on the universe and gravity from Aristotle via Copernicus via Newton to Einstein. The author possesses high literary qualities and is celebrated relativist. The physics of black holes constitutes one of the most fascinating chapters in modern science. At the same time, there is a fanciful quality associated with this strange and beautiful entity. The black hole story is undoubtedly an adventure through physics, philosophy, history, fiction and fantasy. This book is an attempt to blend all these elements together.

### **Black Holes and Time Warps**

The Big Questions series enables renowned experts to

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tackle the 20 most fundamental and frequently asked questions of a major branch of science or philosophy. Each 3000-word essay simply and concisely examines a question that has eternally perplexed enquiring minds, providing answers from history's great thinkers. This ambitious project is a unique distillation of humanity's best ideas. In Big Questions: The Universe, Dr. Stuart Clark tackles the 20 key questions of astronomy and cosmology: What is the universe? How big is the universe? How old is the universe? What are stars made from? How did the universe form? Why do planets stay in orbit? Was Einstein right? What are black holes? How did the Earth form? What were the first celestial objects? What is dark matter? What is dark energy? Are we really made from stardust? Is there life on Mars? Are there other intelligent beings? Can we travel through time and space? Can the laws of physics change? Are there alternative universes? What will be the fate of the universe? Is there cosmological evidence for God?

## **Il Planiverso. Il computer e un mondo bidimensionale**

Written by a team of world-renowned artists, researchers and practitioners - all pioneers in using augmented reality based creative works and installations as a new form of art - this is the first book to explore the exciting new field of augmented reality art and its enabling technologies. As well as investigating augmented reality as a novel artistic medium the book covers cultural, social, spatial and cognitive facets of augmented reality art. Intended as

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a starting point for exploring this new fascinating area of research and creative practice it will be essential reading not only for artists, researchers and technology developers, but also for students (graduates and undergraduates) and all those interested in emerging augmented reality technology and its current and future applications in art.

### **Black Holes, Wormholes and Time Machines, Second Edition**

A man, highly skilled in entering people's dreams to extract secret information, is offered a chance to implant an idea in another man's head, a practice known as inception.

### **Einstein's Enigma or Black Holes in My Bubble Bath**

### **Iperspazio. Un viaggio scientifico attraverso gli universi paralleli e le distorsioni del tempo e la decima dimensione**

### **Universo istruzioni per l'uso. Come sopravvivere a buchi neri, paradossi temporali e fluttuazioni quantistiche**

Examines the life of the noted Renaissance artist and describes how he came to create some of his greatest

works.

## **Quantum Mechanics (A Ladybird Expert Book)**

### **The Cosmic Doctrine**

From Schrodinger's cat to Heisenberg's uncertainty principle, this book untangles the weirdness of the quantum world. Quantum mechanics underpins modern science and provides us with a blueprint for reality itself. And yet it has been said that if you're not shocked by it, you don't understand it. But is quantum physics really so unknowable? Is reality really so strange? And just how can cats be half-alive and half-dead at the same time? Our journey into the quantum begins with nature's own conjuring trick, in which we discover that atoms -- contrary to the rules of everyday experience -- can exist in two locations at once. To understand this we travel back to the dawn of the twentieth century and witness the birth of quantum theory, which over the next one hundred years was to overthrow so many of our deeply held notions about the nature of our universe. Scientists and philosophers have been left grappling with its implications every since.

### **The Physics Book**

We have long understood black holes to be the points at which the universe as we know it comes to an end - mysterious chasms so destructive and unforgiving

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that not even light can escape their deadly power. Recent research, however, has led to a cascade of new discoveries that have revealed an entirely new, and crucially important, side to black holes. Super-sized versions, often billions of times more massive than the Sun, lurk in every galaxy in the universe. And these chasms don't just vacuum up everything around them; they also spit out huge clouds of matter and energy. In *Gravity's Engines*, renowned astrophysicist Caleb Scharf reveals how these giant black holes profoundly rearrange the cosmos that surrounds them, controlling the number of stars in the galaxies and, in turn, the entire universe. With lucidity and elegance, Scharf traces the two hundred year history of our attempts to discover the nature of black holes, from an English academic turned clergyman in the late 1700's who first identified these 'dark stars' to Einstein and the great revolutions of relativity and quantum mechanics. Engaging with our deepest questions about our origins, he takes us on an intimate journey through our endlessly colourful universe, revealing how the cosmic capacity for life is ultimately governed by - and perhaps could not exist without - black holes.

### **Ripples On A Cosmic Sea**

### **The Grand Design**

### **In Search of the Edge of Time**

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For over 700 years the international language of science was Arabic. In *Pathfinders*, Jim al-Khalili celebrates the forgotten pioneers who helped shape our understanding of the world. All scientists have stood on the shoulders of giants. But most historical accounts today suggest that the achievements of the ancient Greeks were not matched until the European Renaissance in the 16th century, a 1,000-year period dismissed as the Dark Ages. In the ninth-century, however, the Abbasid caliph of Baghdad, Abu Ja'far Abdullah al-Ma'mun, created the greatest centre of learning the world had ever seen, known as Bayt al-Hikma, the House of Wisdom. The scientists and philosophers he brought together sparked a period of extraordinary discovery, in every field imaginable, launching a golden age of Arabic science. Few of these scientists, however, are now known in the western world. Abu Rayhan al-Biruni, a polymath who outshines everyone in history except Leonardo da Vinci? The Syrian astronomer Ibn al-Shatir, whose manuscripts would inspire Copernicus's heliocentric model of the solar system? Or the 13th-century Andalucian physician Ibn al-Nafees, who correctly described blood circulation 400 years before William Harvey? Iraqi Ibn al-Haytham who practised the modern scientific method 700 years before Bacon and Descartes, and founded the field of modern optics before Newton? Or even ninth-century zoologist al-Jahith, who developed a theory of natural selection a thousand years before Darwin? The West needs to see the Islamic world through new eyes and the Islamic world, in turn, to take pride in its extraordinarily rich heritage. Anyone who reads this book will understand why

## La trama della realtà

Quantum physicist, New York Times bestselling author, and BBC host Jim Al-Khalili offers a fascinating and illuminating look at what physics reveals about the world. Shining a light on the most profound insights revealed by modern physics, Jim Al-Khalili invites us all to understand what this crucially important science tells us about the universe and the nature of reality itself. Al-Khalili begins by introducing the fundamental concepts of space, time, energy, and matter, and then describes the three pillars of modern physics—quantum theory, relativity, and thermodynamics—showing how all three must come together if we are ever to have a full understanding of reality. Using wonderful examples and thought-provoking analogies, Al-Khalili illuminates the physics of the extreme cosmic and quantum scales, the speculative frontiers of the field, and the physics that underpins our everyday experiences and technologies, bringing the reader up to speed with the biggest ideas in physics in just a few sittings. Physics is revealed as an intrepid human quest for ever more foundational principles that accurately explain the natural world we see around us, an undertaking guided by core values such as honesty and doubt. The knowledge discovered by physics both empowers and humbles us, and still, physics continues to delve valiantly into the unknown. Making even the most enigmatic scientific ideas accessible and captivating, this deeply insightful book illuminates why physics matters to everyone and calls one and all to share in the profound adventure of seeking truth in the world.

around us.

## **Michael the Angel**

The Cosmic Doctrine is a condensed blueprint outline of God's manifestation in this creation. Complex indeed! But what has tended to bother some about the Cosmic Doctrine teaching has been the almost total emphasis in explaining evolution simply as being the psychic nuts and bolts of God. Leaving one with the impression that God may be reduced from a Great and Infinite Being to a kind of mechanical Newtonian clockwork. However there is much more to it than that. The higher up the planes you go, although esoteric theory tends to describe it as all more abstract, in actual fact things become so much more complex, vibrant, vivid, bursting, and brimming with life in incredible profusion. It is another form of experience however. The broadest, though simple, analogy would be to liken the existence on the higher levels as something after the order of a Bach fugue - which could indeed seem to some a rather dry abstraction, but which to the attuned and educated ear is a revelation of divinity, harmony and celestial order. The reality is not easy to describe in concepts, let alone in words. How best to describe a rainbow to a blind man? Contents Introduction Section I. THE EVOLUTION OF THE COSMOS. - 1. The First Manifestation. - 2. The First Trinity. - 3. The Building of the Atom. - 4. The Evolution of the Atom. - 5. The Genesis of a Solar System. - 6. Cosmic Influences on a Solar System. Section II. THE EVOLUTION OF THE LOGOS AND HIS REGENTS. - 7. The Evolution of a

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Great Entity. - 8. The Relation of a Great Entity to the Cosmos. - 9. The Projection of the Concept of the Universe. - 10. The Relation between the Projected Image and the Logoidal Consciousness. - 11. Auto-reactions and Cosmic Memory. - 12. The Birth of consciousness in the Universe. - 13. The Beginnings of Mind and Group Consciousness. - 14. The Seed-atom Building a Seventh Plane Body. - 15. Evolution of the First Planetary Form. - 16. Evolution of the Lords of Flame, Form and Mind. - 17. The Influence of the Regents upon the Globes. - 18. The Goal of Evolution of a Life Swarm. Section. Section III. INFLUENCES UNDER WHICH THE EVOLUTION OF HUMANITY IS CONDUCTED. - 19. Tabulated Summary of Influences. - 20. Cosmic Influences. - 21. The Logoidal Relation to the Manifested Universe. - 22. Influences of the Manifested Universe. - 23. Teaching Concerning Other Evolutions inhabiting a Planet Simultaneously. - 24. Influences which Humanity exerts upon Itself. - 25. The Law of Action and Reaction. - 26. The Law of Limitation. - 27. The Law of Seven Deaths. - 28. The Law of Impactation, or the Transmission of Action from one Plane to another. - 29. The Law of the Aspects of Force, or Polarity. - 30. The Law of the Attraction of Outer Space. - 31. The Law of the Attraction of the Centre

## **Pinocchio e la scienza**

Explore the laws and theories of physics in this accessible introduction to the forces that shape our universe, our planet, and our everyday lives. Using a bold, graphics-led approach, The Physics Book sets

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out more than 80 of the key concepts and discoveries that have defined the subject and influenced our technology since the beginning of time. With the focus firmly on unpacking the thought behind each theory-as well as exploring when and how each idea and breakthrough came about-five themed chapters examine the history and developments in specific areas such as Light, Sound, and Electricity. Eureka moments abound: from Archimedes' bathtub discoveries about displacement and density, and Galileo's experiments with spheres falling from the Tower of Pisa, to Isaac Newton's apple and his conclusions about gravity and the laws of motion. You'll also learn about Albert Einstein's revelations about relativity; how the accidental discovery of cosmic microwave background radiation confirmed the Big Bang theory; the search for the Higgs boson particle; and why most of the universe is missing. If you've ever wondered exactly how physicists formulated-and proved-their abstract concepts, *The Physics Book* is the book for you. **Series Overview: Big Ideas Simply Explained** series uses creative design and innovative graphics along with straightforward and engaging writing to make complex subjects easier to understand. With over 7 million copies worldwide sold to date, these award-winning books provide just the information needed for students, families, or anyone interested in concise, thought-provoking refreshers on a single subject.

### **Black Holes: the Reith Lectures**

## **The Little Book of Black Holes**

Bringing the material up to date, *Black Holes, Wormholes and Time Machines, Second Edition* captures the new ideas and discoveries made in physics since the publication of the best-selling first edition. While retaining the popular format and style of its predecessor, this edition explores the latest developments in high-energy astroparticle physics and Big Bang cosmology. The book continues to make the ideas and theories of modern physics easily understood by anyone, from researchers to students to general science enthusiasts. Taking you on a journey through space and time, author Jim Al-Khalili covers some of the most fascinating topics in physics today, including: Black holes Space warps The Big Bang Time travel Wormholes Parallel universes Professor Al-Khalili explains often complex scientific concepts in simple, nontechnical terms and imparts an appreciation of the cosmos, helping you see how time traveling may not be so far-fetched after all.

## **The Quantum World**

As Kenneth W. Ford shows us in *The Quantum World*, the laws governing the very small and the very swift defy common sense and stretch our minds to the limit. Drawing on a deep familiarity with the discoveries of the twentieth century, Ford gives an appealing account of quantum physics that will help the serious reader make sense of a science that, for all its successes, remains mysterious. In order to make the book even more suitable for classroom use,

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the author, assisted by Diane Goldstein, has included a new section of Quantum Questions at the back of the book. A separate answer manual to these 300+ questions is available; visit The Quantum World website for ordering information. There is also a cloth edition of this book, which does not include the Quantum Questions included in this paperback edition.

### **Molecole in mostra. La chimica nascosta nella vita quotidiana**

### **Gravity's Engines**

### **The Big Questions: The Universe**

Science fact, not science fiction, on the cutting-edge developments that are already changing the course of our future Every day, scientists conduct pioneering experiments with the potential to transform how we live. Yet it isn't every day you hear from the scientists themselves! Now, award-winning author Jim Al-Khalili and his team of top-notch experts explain how today's earthshaking discoveries will shape our world tomorrow—and beyond. Pull back the curtain on: genomics robotics AI the "Internet of Things" synthetic biology transhumanism interstellar travel colonization of the solar system teleportation and much more And find insight into big-picture questions such as: Will we find a cure to all diseases? The answer to climate change? And will bionics one day

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turn us into superheroes? The scientists in these pages are interested only in the truth—reality-based and speculation-free. The future they conjure is by turns tantalizing and sobering: There's plenty to look forward to, but also plenty to dread. And undoubtedly the best way for us to face tomorrow's greatest challenges is to learn what the future looks like—today.

### **Prima dell'inizio. Il nostro universo e gli altri**

#### **Panorama**

"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.

#### **Kos: cultura, medicina, scienze umane**

#### **Divertirsi con la matematica. Curiosità e stranezze del mondo dei numeri**

## **Buchi neri, «wormholes» e macchine del tempo**

Se avete sempre desiderato viaggiare nel tempo e vi affascinano concetti apparentemente esotici come buchi neri, wormholes (cunicoli spazio-temporali) e universi paralleli, questo è il libro che fa per voi: una nuova edizione completamente rivista e aggiornata di un best seller che ha appassionato migliaia di lettori. Jim Al-Khalili riesce a coniugare il suo entusiasmo da fan di Star Trek con il rigore scientifico del vero esperto, spiegando con chiarezza e grande vivacità le idee fondamentali alla base della fisica moderna, dalla legge di gravitazione di Newton alle teorie della relatività di Einstein, fino al Big Bang e all'osservazione delle onde gravitazionali. Con uno stile brillante e divertente vi svelerà persino la ricetta per costruire una macchina del tempo capace di garantirvi un Ritorno al futuro, un viaggio con Terminator o una visita al Bianconiglio di Alice nel Paese delle Meraviglie. Che aspettate? Per intraprendere questo tour nello spazio-tempo, non occorrono nozioni preliminari, ma solo un po' di curiosità e un pizzico di desiderio di avventura.

## **Inception**

Jim Al-Khalili è un fisico teorico di eccezionale talento comunicativo. Per lui i paradossi apparentemente insolubili sono un'ottima occasione per spiegare come funziona la scienza. Per questo ne ha scelti nove, tra più e meno noti, e sulla loro traccia ha costruito questo libro, divertente, stimolante, ironico e che ha

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la capacità di sconcertare con la semplice accumulazione di elementi imprevedibili. Insomma, un libro che non lascia riposare la mente. Si va dal classico paradosso di Achille e la tartaruga (del quale però scopriamo un insospettabile risvolto quantistico) alla più semplice domanda che l'uomo può farsi guardando la volta stellata: perché di notte fa buio? Sembra incredibile, ma dietro a questa domanda apparentemente banale si nasconde una delle più eclatanti scoperte della fisica contemporanea, che era lì, alla portata degli esseri umani fin dalla preistoria, ma che ha trovato una soluzione plausibile solo pochissimo tempo fa. Incontreremo anche l'inquietante diavoleto di Maxwell, il povero gatto di Schrödinger, che è contemporaneamente vivo e morto, lo strano caso degli oggetti che si accorciano viaggiando, quello ancor più strano del tempo che si dilata e si contrae a suo capriccio, per non dire del mistero (paradossale anch'esso, grazie a un'intuizione di Enrico Fermi) della vita extraterrestre. Sono i diabolici paradossi della fisica, che danno da pensare, ma alla fine hanno una soluzione insperata. Basta rilassarsi e lasciarsi guidare da Al-Khalili e tutto si chiarirà. Be', quasi tutto.

### **The Physics of Star Trek**

Part of the new Ladybird Expert series, Quantum Mechanics is a clear, simple and entertaining introduction to the weird, mind-bending world of the very, very small. Written by physicist and broadcaster Professor Jim Al-Khalili, it explores all the key players, breakthroughs, controversies and unanswered

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questions of the quantum world. You'll discover how the sun shines, why light is both a wave and a particle, the certainty of the Uncertainty Principle, Schrodinger's Cat, Einstein's spooky action, how to build a quantum computer, and why quantum mechanics drives even its experts completely crazy. 'Jim Al-Khalili has done an admirable job of condensing the ideas of quantum physics from Max Planck to the possibilities of quantum computers into brisk, straightforward English' The Times Written by the leading lights and most outstanding communicators in their fields, the Ladybird Expert books provide clear, accessible and authoritative introductions to subjects drawn from science, history and culture. Other books currently available in the Ladybird Expert series include: · Climate Change · Evolution For an adult readership, the Ladybird Expert series is produced in the same iconic small format pioneered by the original Ladybirds. Each beautifully illustrated book features the first new illustrations produced in the original Ladybird style for nearly forty years.

### **The Fabric of the Cosmos**

### **Sunfall**

What warps when you're traveling at warp speed? What is the difference between a wormhole and a black hole? Are time loops really possible, and can I kill my grandmother before I am born? Anyone who has ever wondered "could this really happen?" will

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gain useful insights into the Star Trek universe (and, incidentally, the real world of physics) in this charming and accessible guide. Lawrence M. Krauss boldly goes where Star Trek has gone-and beyond. From Newton to Hawking, from Einstein to Feynman, from Kirk to Picard, Krauss leads readers on a voyage to the world of physics as we now know it and as it might one day be.

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