

## ***Neutrino Hunters The Thrilling Chase For A Ghostly Particle To Unlock Secrets Of Universe Ray Jayawardhana***

"A Best Book of 2009" —The Japan Times Japanese Ghost Stories, formerly published under the title Supernatural and Mysterious Japan, is a collection of the eerie and terrifying from around Japan. This book opens a window into the hidden aspects of the Japanese world of the paranormal, a place where trees grow human hair, rocks weep and there's even a graveyard where Jesus is reputed to have been buried. Covering ancient and modern times, Japanese Ghost Stories offers not only good, old-fashioned scary stories, but some special insights into Japanese culture and psychology. Japanese ghost stories include: In Search of the Supernatural Psychic Stirrings New Forays into the Mystic Strange but True Modern-Day Hauntings Scenes of Ghosts and Demons Edo-Era Tales

A second edition of one of our best popular physics titles.

An exploration of how altruism affects us, what are the markers for success, and how to avoid the pitfalls—with scrupulous research and on-the-ground reporting from the Pulitzer Prize-winning journalists and bestselling authors of Half a Sky and Tightrope Kristof and WuDunn will inspire you to "change lives for the better, including your own (The New York Times Book Review). In their recounting of astonishing stories from the front lines of social progress, we see the compelling, inspiring truth of how real people have changed the world, underscoring that one person can make a difference. A Path Appears offers practical, results-driven advice on how best each of us can give and reveals the lasting benefits we gain in return. Kristof and WuDunn know better than most how many urgent challenges communities around the world face today. Here they offer a timely beacon of hope for our collective future.

Before the Higgs boson, there was a maddening search for another particle that holds the secrets of the universe - the neutrino. First detected in 1956, it teased the answers to still more mysteries. But the hunt for the neutrino and its meaning has also involved adventures, from Cold War defections and extra dimensions to mile-deep holes in the Antarctic ice and a troubled genius who disappeared without a trace. Here, renowned astrophysicist Ray Jayawardhana delivers a thrilling detective story of revolutionary science from the dawn of the quantum age to today's most inventive labs.

The Search for Alien Planets and Life beyond Our Solar System

Nobel Prize Women in Science

Eclipse Phase - Gatecrashing

Child of the Universe

The Power of Stars

Neutrino Hunters

***All new and original to this volume, the 21 stories in Dangerous Women***

**include work by twelve New York Times bestsellers, and seven stories set in the authors' bestselling continuities-including a new "Outlander" story by Diana Gabaldon, a tale of Harry Dresden's world by Jim Butcher, a story from Lev Grossman set in the world of The Magicians, and a 35,000-word novella by George R. R. Martin about the Dance of the Dragons, the vast civil war that tore Westeros apart nearly two centuries before the events of A Game of Thrones. Also included are original stories of dangerous women--heroines and villains alike--by Brandon Sanderson, Joe Abercrombie, Sherrilyn Kenyon, Lawrence Block, Carrie Vaughn, S. M. Stirling, Sharon Kay Penman, and many others. Writes Gardner Dozois in his Introduction, "Here you'll find no hapless victims who stand by whimpering in dread while the male hero fights the monster or clashes swords with the villain, and if you want to tie these women to the railroad tracks, you'll find you have a real fight on your hands. Instead, you will find sword-wielding women warriors, intrepid women fighter pilots and far-ranging spacewomen, deadly female serial killers, formidable female superheroes, sly and seductive femmes fatale, female wizards, hard-living Bad Girls, female bandits and rebels, embattled survivors in Post-Apocalyptic futures, female Private Investigators, stern female hanging judges, haughty queens who rule nations and whose jealousies and ambitions send thousands to grisly deaths, daring dragonriders, and many more." At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.**

**Since 1901 there have been over three hundred recipients of the Nobel Prize in the sciences. Only ten of them--about 3 percent--have been women. Why? In this updated version of Nobel Prize Women in Science, Sharon Bertsch McGrayne explores the reasons for this astonishing disparity by examining the lives and achievements of fifteen women scientists who either won a Nobel Prize or played a crucial role in a Nobel Prize - winning project. The book reveals the relentless discrimination these women faced both as students and as researchers. Their success was due to the fact that they were passionately in love with science. The book begins with Marie Curie, the first woman to win the Nobel Prize in physics. Readers are then introduced to Christiane Nusslein-Volhard, Emmy Noether, Lise Meitner, Barbara McClintock, Chien-Shiung Wu, and Rosalind Franklin. These and other remarkable women portrayed here struggled against gender discrimination, raised families, and became political and religious leaders. They were mountain climbers, musicians, seamstresses, and gourmet cooks. Above all, they were strong, joyful women in love with discovery. Nobel Prize Women in Science is a startling and revealing look into the history of science and the critical and inspiring role that women have played in the drama of scientific progress. Vividly reproduces 32 pages from a medieval Irish Bible illustrated with elaborate and colorful drawings**

**Authors Paul Polak and Mal Warwick describe their Zero-Based Design of starting from scratch to create innovative products and services tailored for the very poor to show how their design principles and vision can enable unapologetic capitalists to supply the very poor with clean drinking water, electricity, irrigation, housing, education, health care, and other necessities at a fraction of the usual cost and at profit margins**

**attractive to investors.**

**Cosmic Horizons**

**Materials for the Case History of an ET S & M Freak : a Literary Pathology  
The Startling Potential of Human Evolution -- and How to Be Part of It  
Selected Plates in Full Color**

**Extraterrestrial Sex Fetish**

**Why Evolution is True**

*"Who can ask for better cosmic tour guides?" —Michio Kaku Our true origins are not only human, or even terrestrial, but in fact cosmic. Drawing on recent scientific breakthroughs and cross-pollination among geology, biology, astrophysics, and cosmology, Origins illuminates the soul-stirring leaps in our understanding of the cosmos. This revised and updated edition features such startling discoveries as the now more than 5,000 detected exoplanets that promise to reveal exciting possibilities for life in the cosmos, and data from a new generation of ground-based and spaceborne observatories that have fundamentally changed what we know about the expanding universe?and maybe even the laws of physics themselves. From the first image of a galaxy's birth to tantalizing evidence of water not only on Mars but also on the asteroid Ceres, as well as on moons of Jupiter and Saturn, coauthors Neil deGrasse Tyson and Donald Goldsmith conduct an exhilarating tour of the cosmos with clarity and exuberance.*

*Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaetre. Original.*

*Neutrino HuntersThe Thrilling Chase for a Ghostly Particle to Unlock the Secrets of the UniverseMacmillan*

*A classic of African-American fiction, Chester Himes's tale of a young black man who becomes a union organizer during WWII examines major problems in American life: racism, anti-Semitism, labor strife, and corruption.*

*A New Ideal for Values in Science*

*Spirits, Hauntings, and Paranormal Phenomena*

*Stalinist Mass Culture and the Formation of Modern Russian National Identity, 1931-1956*

*The Neutrino Hunters*

*Astronomy at the Cutting Edge*

*National Bolshevism*

*A look inside the world of forensics examines the use of human cadavers in a wide range of endeavors, including research into new surgical procedures, space exploration, and a Tennessee human decay research facility.*

*A mixture of memoir and biography, Chasing the Ghost: Nobelist Fred Reines and the Neutrino tells a deeply human story that appeals both to scientists and non-scientists. Although the book relates to the important discovery of neutrinos, it is more intimately about Fred Reines than the technical details of neutrino physics. Narrated in a fashion to interest and excite the reader, the science presented here is accessible to a broad audience. Coursing through Reines' life, his various challenges and encounters, the book reveals constants of his persona. Reines displayed a sustained consistency as a respected leader, admired by students and colleagues as a fount of big ideas and ambition. A continuing source of inspiration*

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and motivation to others, his most basic consistency was his passion for science. The quest for knowledge about the wondrous universe is a profoundly human endeavor. Fred Reines' life and his unremitting scientific curiosity are emblematic of that truth. This book is a most welcome account about Frederick Reines and his great contributions to neutrino physics and astrophysics. The methods he designed in the 1950s to discover neutrinos in nuclear reactor experiments are still being used. His later work included the detection of atmospheric neutrinos which was a forerunner to the discovery of neutrino oscillations, the ability of neutrinos to change from one type to another. This finding was a significant step to other experiments that aim to answer profound questions about the nature of the universe including why it is composed of matter. Takaaki Kajita Nobel Laureate in Physics Neutrino Researcher, University of Tokyo Cole has provided a compelling personal and scientific account of a remarkable pioneer in Neutrino Physics. Arthur B McDonald Nobel Laureate in Physics Director of the Sudbury Neutrino Observatory Professor, Queen's University, Ontario, Canada Generations have grown up knowing that the equation  $E=mc^2$  changed the shape of our world, but never understanding what it actually means, why it was so significant, and how it informs our daily lives today--governing, as it does, everything from the atomic bomb to a television's cathode ray tube to the carbon dating of prehistoric paintings. In this book, David Bodanis writes the "biography" of one of the greatest scientific discoveries in history--that the realms of energy and matter are inescapably linked--and, through his skill as a writer and teacher, he turns a seemingly impenetrable theory into a dramatic human achievement and an uncommonly good story.

A renowned astrophysicist presents a fascinating exploration into the world of neutrinos, incredibly small bits of matter that hold the secrets of the universe, and the lives of the scientists who chase them in hopes of redefining how we think about physics, cosmology and our lives on Earth. 15,000 first printing.

The Dying Testimonies of Saved and Unsaved

What You Need to Know to Start Doing Physics

A Concise Introduction to Logic

The Theoretical Minimum

Designing Products and Services for Three Billion New Customers

Lonely Crusade

Winner of the Canadian Science Writers Association 2014 Science in Society Book Award A Publishers Weekly Top 10 Science Book of the Season A Book to Watch Out For, The New Yorker's Page-Turner Blog A Los Angeles Times Gift Guide Selection One of the Best Physics Books of 2013, Cocktail Party Physics Blog, Scientific American Detective thriller meets astrophysics in this adventure into neutrinos and the scientists who pursue them The incredibly small bits of matter we call neutrinos may hold the secret to why antimatter is so rare, how mighty stars explode as supernovae, what the universe was like just seconds after the big bang, and even the inner workings of our own planet. For more than eighty years, adventurous minds from around the world have been chasing these ghostly particles, trillions of which pass through our bodies every second. Extremely elusive and difficult to pin down, neutrinos are not unlike the brilliant and eccentric scientists who doggedly pursue them. In Neutrino Hunters, the renowned astrophysicist and award-winning writer Ray Jayawardhana takes us on a thrilling

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journey into the shadowy world of neutrinos and the colorful lives of those who seek them. Demystifying particle science along the way, Jayawardhana tells a detective story with cosmic implications—interweaving tales of the sharp-witted theorist Wolfgang Pauli; the troubled genius Ettore Majorana; the harbinger of the atomic age Enrico Fermi; the notorious Cold War defector Bruno Pontecorvo; and the dynamic dream team of Marie and Pierre Curie. Then there are the scientists of today who have caught the neutrino bug, and whose experimental investigations stretch from a working nickel mine in Ontario to a long tunnel through a mountain in central Italy, from a nuclear waste site in New Mexico to a bay on the South China Sea, and from Olympic-size pools deep underground to a gigantic cube of Antarctic ice—called, naturally, IceCube. As Jayawardhana recounts a captivating saga of scientific discovery and celebrates a glorious human quest, he reveals why the next decade of neutrino hunting will redefine how we think about physics, cosmology, and our lives on Earth.

Almost weightless and able to pass through the densest materials with ease, neutrinos may offer answers to questions ranging from relativity and quantum mechanics to more radical theories about dark energy and supersymmetry. Heinrich Päs serves as our fluent guide to a particle world that tests the boundaries of space, time, and human knowledge. AC/DC tells the little-known story of how Thomas Edison wrongly bet in the fierce war between supporters of alternating current and direct current. The savagery of this electrical battle can hardly be imagined today. The showdown between AC and DC began as a rather straightforward conflict between technical standards, a battle of competing methods to deliver essentially the same product, electricity. But the skirmish soon metastasized into something bigger and darker. In the AC/DC battle, the worst aspects of human nature somehow got caught up in the wires; a silent, deadly flow of arrogance, vanity, and cruelty. Following the path of least resistance, the war of currents soon settled around that most primal of human emotions: fear. AC/DC serves as an object lesson in bad business strategy and poor decision making. Edison's inability to see his mistake was a key factor in his loss of control over the ?operating system? for his future inventions?not to mention the company he founded, General Electric.

In *Tides: The Science and Spirit of the Ocean*, writer, sailor, and surfer Jonathan White takes readers across the globe to discover the science and spirit of ocean tides. In the Arctic, White shimmies under the ice with an Inuit elder to hunt for mussels in the dark cavities left behind at low tide; in China, he races the Silver Dragon, a twenty-five-foot tidal bore that crashes eighty miles up the Qiantang River; in France, he interviews the monks that live in the tide-wrapped monastery of Mont Saint-Michel; in Chile and Scotland, he investigates the growth of tidal power generation; and in Panama and Venice, he delves into how the threat of sea level rise is changing human culture—the very old and very new. *Tides* combines lyrical prose, colorful adventure travel, and provocative scientific inquiry into the

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elemental, mysterious paradox that keeps our planet's waters in constant motion. Photographs, scientific figures, line drawings, and sixteen color photos dramatically illustrate this engaging, expert tour of the tides.

Strange New Worlds

Japanese Ghost Stories

$E=mc^2$

Origins: Fourteen Billion Years of Cosmic Evolution

Chasing The Ghost: Nobelist Fred Reines And The Neutrino

Dangerous Women

***The idea that science is or should be value-free, and that values are or should be formed independently of science, has been under fire by philosophers of science for decades. Science and Moral Imagination directly challenges the idea that science and values cannot and should not influence each other. Matthew J. Brown argues that science and values mutually influence and implicate one another, that the influence of values on science is pervasive and must be responsibly managed, and that science can and should have an influence on our values. This interplay, he explains, must be guided by accounts of scientific inquiry and value judgment that are sensitive to the complexities of their interactions. Brown presents scientific inquiry and value judgment as types of problem-solving practices and provides a new framework for thinking about how we might ethically evaluate episodes and decisions in science, while offering guidance for scientific practitioners and institutions about how they can incorporate value judgments into their work. His framework, dubbed "the ideal of moral imagination," emphasizes the role of imagination in value judgment and the positive role that value judgment plays in science.***

***An insider's look at the cutting-edge science of today's planet hunters In Strange New Worlds, renowned astronomer Ray Jayawardhana brings news from the front lines of the epic quest to find planets—and alien life—beyond our solar system. Only in the past two decades, after millennia of speculation, have astronomers begun to discover planets around other stars—thousands in fact. Now they are closer than ever to unraveling distant twins of the Earth. In this book, Jayawardhana vividly recounts the stories of the scientists and the remarkable breakthroughs that have ushered in this extraordinary age of exploration. He describes the latest findings—including his own—that are challenging our view of the cosmos and casting new light on the origins and evolution of planets and planetary systems. He reveals how technology is rapidly advancing to support direct observations of Jupiter-like gas giants and super-Earths—rocky planets with several times the mass of our own planet—and how astronomers use biomarkers to***

*seek possible life on other worlds. Strange New Worlds provides an insider's look at the cutting-edge science of today's planet hunters, our prospects for discovering alien life, and the debates and controversies at the forefront of extrasolar-planet research. In a new afterword, Jayawardhana explains some of the most recent developments as we search for the first clues of life on other planets.*

*Fiction. Through its profile of Mercury de Sade, a computer programmer obsessed with the erotic potential of alien life, EXTRATERRESTRIAL SEX FETISH introduces a new perversion into the lexicon of sexual pathologies: exophilia, an abnormal attraction for aliens. "What Kubrick did to the science fiction film, EXTRATERRESTRIAL does to the science fiction novel...a kind of 2001: A Space Sodomy"--Dr. H. Floyd. "If the Marquis de Sade invented an astonishing new branch of mathematics, in which series and sets of bodies were subject to formal operations of pain and degradation, EXTRATERRESTRIAL is the first to apply this new math to cosmology.a kind of 120 Days of Saturn"--P. de Curval. Supervert 32C is a media company that utilizes the techniques of vanguard aesthetics to research the pathology of novel perversions.*

*Few recent events in British Columbia have seized the public mind like the 2006 sinking of the BC Ferries passenger vessel Queen of the North. Across Canada, it was one of the top news stories of the year. In BC it has attained the status of nautical legend. Ten years later, questions are still being asked. How did a ship that sailed the same course thousands of times fall victim to such an inexplicable error? Was the bridge crew fooling around? Why doesn't anybody in the know come forward and tell the truth? Nobody knew the ship, the crew and the circumstances that fateful March night better than the Queen of the North's long-serving captain, Colin Henthorne, and in this book he finally tells his story. The basic facts are beyond dispute. Just after midnight on March 22, 2006, the Queen of the North—carrying 101 passengers—struck an underwater ledge off Gil Island, 135 kilometres south of Prince Rupert. The impact tore open the ship's bottom and ripped out the propellers. In less than an hour, it sank 427 metres to the bottom of Wright Sound. Despite the crew's skilled evacuation, two passengers went missing and have never been found. Helmswoman Karen Briker was fired. Fourth Mate Karl Lilgert was charged with criminal negligence causing death and sentenced to four years in prison. Captain Henthorne, who was not on watch at the time of the grounding, fought to keep his job and lost. It took him over six years to recover his career. On the tenth anniversary of the tragedy, Captain Henthorne recalls with accuracy and detail that*

***ill-fated voyage and all its terrible repercussions. The Queen of the North Disaster: The Captain's Story dispels rumours about what really happened that night, revealing a fascinating inside look at a modern marine disaster.***

***Stiff: The Curious Lives of Human Cadavers***

***Unlocking the Potential of Asia's Next Superpower***

***Science and Moral Imagination***

***A Century of Geniuses and the Battle over General Relativity***

***The Captain's Story***

***AC/DC***

“One of the best popular accounts of how Einstein and his followers have been trying to explain the universe for decades” (Kirkus Reviews, starred review). Physicists have been exploring, debating, and questioning the general theory of relativity ever since Albert Einstein first presented it in 1915. This has driven their work to unveil the universe’s surprising secrets even further, and many believe more wonders remain hidden within the theory’s tangle of equations, waiting to be exposed. In this sweeping narrative of science and culture, an astrophysicist brings general relativity to life through the story of the brilliant physicists, mathematicians, and astronomers who have taken up its challenge. For these scientists, the theory has been both a treasure trove and an enigma. Einstein’s theory, which explains the relationships among gravity, space, and time, is possibly the most perfect intellectual achievement of modern physics—yet studying it has always been a controversial endeavor. Relativists were the target of persecution in Hitler’s Germany, hounded in Stalin’s Russia, and disdained in 1950s America. Even today, PhD students are warned that specializing in general relativity will make them unemployable. Still, general relativity has flourished, delivering key insights into our understanding of the origin of time and the evolution of all the stars and galaxies in the cosmos. Its adherents have revealed what lies at the farthest reaches of the universe, shed light on the smallest scales of existence, and explained how the fabric of reality emerges. Dark matter, dark energy, black holes, and string theory are all progeny of Einstein’s theory. In the midst of a momentous transformation in modern physics, as scientists look farther and more clearly into space than ever before, *The Perfect Theory* exposes the greater relevance of general relativity, showing us where it started, where it has led—and where it can still take us.

Ettinger asserts that cryonic hibernation of humans may provide a "door into summer" unlike any season previously known and argues for his belief in "the possibility of limitless life for our generation."

During the 1930s, Stalin and his entourage rehabilitated famous names from the Russian national past in a propaganda campaign designed to mobilize Soviet society for the coming war. In a provocative study, David Brandenberger traces this populist "national Bolshevism" into the 1950s, highlighting the catalytic effect that it had on Russian national identity formation.

Completely revised and updated, this new edition provides a readable, beautifully illustrated journey through world cultures and the vibrant array of sky mythology, creation stories, models of the universe, temples and skyscrapers that each culture has created to celebrate and respond to the power of the night sky. Sections on the archaeoastronomy of South Asia and South East Asia have been expanded, with original photography and new research on temple alignments in Southern India, and new material describing the astronomical practices of Indonesia, Malaysia and other Southeast Asian countries. Beautiful photographs of temples in India and Asia have been added, as well as new diagrams explaining the alignment of these structures and the

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astronomical underpinnings of temples within the Pallava and Chola cultures. From new fieldwork in the Four Corners region of North America, Dr. Penprase has included accounts of Pueblo skywatching and photographs of ceremonial kivas that help elucidate the rich astronomical knowledge of the Pueblo people. The popular “Archaeoastronomy of Skyscrapers” section of the book has been updated as well, with new interpretations of skyscrapers in Indonesia, Taiwan and China. With the rapid pace of discovery in astronomy and astrophysics, entirely new perspectives are emerging about dark matter, inflation and the future of the universe. The Power of Stars puts these discoveries in context and describes how they fit into the modern perspective of cosmology, which has arisen from the universal human response to the sky that has inspired both ancient and modern cultures.

A Path Appears

The Savage Tale of the First Standards War

The Book of Kells

The Thrilling Chase for a Ghostly Particle to Unlock the Secrets of the Universe

Warped Passages

*Before the Higgs boson, there was a maddening search for another particle – the ghostly neutrino. First detected in 1956, its fleeting appearances have teased answers to many mysteries: How did the Big Bang happen? Why is antimatter so rare? What might dark matter be made of? And could faster-than-light travel be possible, overturning Einstein’s theory of special relativity? But the quest for the neutrino also encompasses adventure, from Cold War defections and extra dimensions to mile-deep holes in the Antarctic ice and a troubled genius who disappeared without a trace. With *The Neutrino Hunters*, renowned astrophysicist Ray Jayawardhana delivers a thrilling detective story of revolutionary science. For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. *Why Evolution is True* weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.*

*The universe has many secrets. It may hide additional dimensions of space other than the familiar three we recognize. There might even be another universe adjacent to ours, invisible and unattainable . . . for now. *Warped Passages* is a brilliantly readable and altogether exhilarating journey that tracks the arc of discovery from early twentieth-century physics to the razor's edge of modern scientific theory. One of the world's leading theoretical physicists, Lisa Randall provides astonishing scientific possibilities that, until recently, were restricted to*

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*the realm of science fiction. Unraveling the twisted threads of the most current debates on relativity, quantum mechanics, and gravity, she explores some of the most fundamental questions posed by Nature—taking us into the warped, hidden dimensions underpinning the universe we live in, demystifying the science of the myriad worlds that may exist just beyond our own.*

*Reimagining India brings together leading thinkers from around the world to explore the challenges and opportunities faced by one of the most important and least understood nations on earth. India's abundance of life—vibrant, chaotic, and tumultuous—has long been its foremost asset. The nation's rising economy and burgeoning middle class have earned India a place alongside China as one of the world's two indispensable emerging markets. At the same time, India's tech-savvy entrepreneurs and rapidly globalizing firms are upending key sectors of the world economy. But what is India's true potential? And what can be done to unlock it? McKinsey & Company has pulled in wisdom from many corners—social and cultural as well as economic and political—to launch a feisty debate about the future of Asia's "other superpower." Reimagining India features an all-star cast of contributors, including CNN's Fareed Zakaria; Mukesh Ambani, CEO of India's largest private conglomerate; Microsoft founder Bill Gates; Google chairman Eric Schmidt; Harvard Business School dean Nitin Nohria; award-winning authors Suketu Mehta (Maximum City), Edward Luce (In Spite of the Gods), and Patrick French (India: A Portrait); Nandan Nilekani, Infosys cofounder and chairman of the Unique Identification Authority of India; and a host of other leading executives, entrepreneurs, economists, foreign policy experts, journalists, historians, and cultural luminaries. These essays explore topics like the strengths and weaknesses of India's political system, growth prospects for India's economy, the competitiveness of Indian firms, India's rising international profile, and the rapid evolution of India's culture. Over the next decade India has the opportunity to show the rest of the developing world how open, democratic societies can achieve high growth and shared prosperity. Contributors offer creative strategies for seizing that opportunity. But they also offer a frank assessment of the risks that India's social and political fractures will instead thwart progress, condemning hundreds of millions of people to enduring poverty. Reimagining India is a critical resource for readers seeking to understand how this vast and vital nation is changing—and how it promises to change the world around us.*

*The Science and Spirit of the Ocean*

*The Queen of the North Disaster*

*Transforming Lives, Creating Opportunity*

*Atomic Awakening: A New Look at the History and Future of Nuclear Power*

*The Chase for the Ghost Particle and the Secrets of the Universe*

*Man Into Superman*

**Meet the players in the most fundamental scientific revolution since Copernicus The Facts of Matter It is one of the most disturbing aspects of our universe: only four per cent of it**

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consists of the matter that makes up every star, planet, and every book. The rest is completely unknown. Acclaimed science writer Richard Panek tells the story of the handful of scientists who have spent the past few decades on a quest to unlock the secrets of "dark matter" and the even stranger substance called "dark energy". These are perhaps the greatest mysteries in science, and solving them will reshape our understanding of the universe and our place in it. The stakes could not be higher. Panek's fast-paced narrative, filled with original, in-depth reporting and intimate, behind-the-scenes details, brings this epic story to life for the very first time. The incredibly small bits of matter we call neutrinos may hold the secret to why antimatter is so rare, how mighty stars explode as supernovas and what the universe was like just seconds after the big bang. They even illuminate the inner workings of our own planet. For more than eighty years, adventurous minds from around the world have been chasing these ghostly particles, trillions of which pass through our bodies every second. Extremely elusive and difficult to pin down, neutrinos are not unlike the brilliant and eccentric scientists who doggedly pursue them. Ray Jayawardhana recounts in *Neutrino Hunters* a captivating saga of scientific discovery and celebrates a glorious human quest, revealing why the next decade of neutrino hunting could redefine how we think about physics, cosmology and our lives on Earth.

A master teacher presents the ultimate introduction to classical mechanics for people who are serious about learning physics "Beautifully clear explanations of famously 'difficult' things," -- *Wall Street Journal* If you ever regretted not taking physics in college -- or simply want to know how to think like a physicist -- this is the book for you. In this bestselling introduction to classical mechanics, physicist Leonard Susskind and hacker-scientist George Hrabovsky offer a first course in physics and associated math for the ardent amateur. Challenging, lucid, and concise, *The Theoretical Minimum* provides a tool kit for amateur scientists to learn physics at their own pace. Perfect for fans of *The Wonderful Things You Will Be* and *That's Me Loving You*, this picture book by a renowned astrophysicist is a lyrical meditation on the preciousness of one child and the vastness of the universe. Just like the sun gives shine to the moon, you light up the world beyond this room . . . You are grand and marvelous, strong and mysterious. The history of the world is in your fingertips. A lyrical meditation on the preciousness of one child and the vastness of the universe, this gorgeously illustrated picture book shares the immensity of a parent's love along with the message that we are all connected

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*to the broader cosmos in important and intimate ways. A perfect bedtime read-aloud, Child of the Universe is a book to cherish forever. The author is an astrophysicist who has been fascinated by the universe since he was a child. As a parent, he has developed a new appreciation for the deep connections between billions of years of cosmic evolution and this one tiny human. Unraveling the Mysteries of the Universe's Hidden Dimensions*  
*The Perfect Theory*  
*A Biography of the World's Most Famous Equation*  
*The 4-Percent Universe*  
*The Business Solution to Poverty*  
*Reimagining India*

"Persuasive and based on deep research. Atomic Awakening taught me a great deal."—Nature  
The American public's introduction to nuclear technology was manifested in destruction and death. With Hiroshima and the Cold War still ringing in our ears, our perception of all things nuclear is seen through the lens of weapons development. Nuclear power is full of mind-bending theories, deep secrets, and the misdirection of public consciousness, some deliberate, some accidental. The result of this fixation on bombs and fallout is that the development of a non-polluting, renewable energy source stands frozen in time. Outlining nuclear energy's discovery and applications throughout history, Mahaffey's brilliant and accessible book is essential to understanding the astounding phenomenon of nuclear power in an age where renewable energy and climate change have become the defining concerns of the twenty-first century.

Their Lives, Struggles, and Momentous Discoveries: Second Edition

Tides

The Perfect Wave

The Particle Hunters

Dark Matter, Dark Energy, and the Race to Discover the Rest of Reality