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2021-06-19

ELLIS CARLA

Ten Billion Tomorrows Ivy Press
One of Time's 12 Books for the History

Bufs on Your Holiday Gift List The first single-volume history of Istanbul in decades: a biography of the city at the center of civilizations past and present. For more than two millennia Istanbul has stood at the crossroads of the world, perched at the very tip of Europe, gazing across the shores of Asia. The history of this city--known as Byzantium, then Constantinople, now Istanbul--is at once glorious, outsized, and astounding. Founded by the Greeks, its location blessed it as a center for trade but also made it a target of every empire in history, from Alexander the Great and his Macedonian Empire to the Romans and later the Ottomans. At its most spectacular Emperor Constantine I re-founded the city as New Rome, the capital of the eastern Roman empire,

and dramatically expanded the city, filling it with artistic treasures, and adorning the streets with opulent palaces. Around it all Constantine built new walls, truly impregnable, that preserved power, wealth, and withstood any aggressor--walls that still stand for tourists to visit. From its ancient past to the present, we meet the city through its ordinary citizens--the Jews, Muslims, Italians, Greeks, and Russians who used the famous baths and walked the bazaars--and the rulers who built it up and then destroyed it, including Mustafa Kemal Ataturk, the man who christened the city "Istanbul" in 1930. Thomas F. Madden's entertaining narrative brings to life the city we see today, including the rich splendor of the churches and monasteries that spread throughout the

city. Istanbul draws on a lifetime of study and the latest scholarship, transporting readers to a city of unparalleled importance and majesty that holds the key to understanding modern civilization. In the words of Napoleon Bonaparte, "If the Earth were a single state, Istanbul would be its capital." The Hunt for Vulcan Icon Books
'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.

What Do You Think You Are? Farrar, Straus and Giroux

The story of two brilliant nineteenth-century scientists who discovered the electromagnetic field, laying the groundwork for the amazing technological and theoretical breakthroughs of the twentieth century

Two of the boldest and most creative scientists of all time were Michael Faraday (1791-1867) and James Clerk Maxwell (1831-1879). This is the story of how these two men - separated in age by forty years - discovered the existence of the electromagnetic field and devised a radically new theory which overturned the strictly mechanical view of the world that had prevailed since Newton's time. The authors, veteran science writers with special expertise in physics and

engineering, have created a lively narrative that interweaves rich biographical detail from each man's life with clear explanations of their scientific accomplishments. Faraday was an autodidact, who overcame class prejudice and a lack of mathematical training to become renowned for his acute powers of experimental observation, technological skills, and prodigious scientific imagination. James Clerk Maxwell was highly regarded as one of the most brilliant mathematical physicists of the age. He made an enormous number of advances in his own right. But when he translated Faraday's ideas into mathematical language, thus creating field theory, this unified framework of electricity, magnetism and light became the basis

for much of later, 20th-century physics. Faraday's and Maxwell's collaborative efforts gave rise to many of the technological innovations we take for granted today - from electric power generation to television, and much more. Told with panache, warmth, and clarity, this captivating story of their greatest work - in which each played an equal part - and their inspiring lives will bring new appreciation to these giants of science.

What Stars Are Made Of HarperCollins

What are these graceful visitors to our skies? We now know that they bring both life and death and teach us about our origins. Comet begins with a breathtaking journey through space astride a comet. Pulitzer Prize-winning astronomer Carl Sagan, author of

Cosmos and Contact, and writer Ann Druyan explore the origin, nature, and future of comets, and the exotic myths and portents attached to them. The authors show how comets have spurred some of the great discoveries in the history of science and raise intriguing questions about these brilliant visitors from the interstellar dark. Were the fates of the dinosaurs and the origins of humans tied to the wanderings of a comet? Are comets the building blocks from which worlds are formed? Lavishly illustrated with photographs and specially commissioned full-color paintings, Comet is an enthralling adventure, indispensable for anyone who has ever gazed up at the heavens and wondered why. Praise for Comet "Simply the best." —The Times of London

"Fascinating, evocative, inspiring." —The Washington Post "Comet humanizes science. A beautiful, interesting book."
 —United Press International "Masterful . . . science, poetry, and imagination."
 —The Atlanta Journal & Constitution
Japanese Demon Lore Joseph Henry Press

The perfect companion to any flight - a guide to the science on view from your window seat. There are few times when science is so immediate as when you're in a plane. Your life is in the hands of the scientists and engineers who enable tons of metal and plastic to hurtle through the sky at hundreds of miles an hour. Inflight Science shows how you stay alive up there - but that's only the beginning. Brian Clegg explains the ever changing view, whether it's crop circles

or clouds, mountains or river deltas, and describes simple experiments to show how a wing provides lift, or what happens if you try to open a door in midair (don't!). On a plane you'll experience the impact of relativity, the power of natural radiation and the effect of altitude on the boiling point of tea. Among the many things you'll learn is why the sky is blue, the cause of thunderstorms and the impact of volcanic ash in an enjoyable tour of mid-air science. Every moment of your journey is an opportunity to experience science in action: Inflight Science will be your guide.

Istanbul Icon Books Ltd

Enter the invisible world of sub-atomic physics and discover the very core of existence. Cracking Quantum Physics

takes you through every area of particle physics to clearly explain how our world was, and is, created, and breaks down the most complex theories into easily understandable elements. Subjects covered include: -Time travel -The Higgs field -Dark Matter -The anatomy of the elements -Enter the atom -Quantum reality -Quantum tunnelling - Electrodynamics -Accelerators and colliders -The Zeno effect An easy-to-understand guide to some of the most complex and intriguing topics: Cracking Quantum Physics is a must-read for anyone who has ever wondered about the underlying forces and materials that make up the world as we know it. Before the Big Bang Princeton University Press
The ultimate non-technical guide to the

fast-developing world of quantum computing Computer technology has improved exponentially over the last 50 years. But the headroom for bigger and better electronic solutions is running out. Our best hope is to engage the power of quantum physics. 'Quantum algorithms' had already been written long before hardware was built. These would enable, for example, a quantum computer to exponentially speed up an information search, or to crack the mathematical trick behind internet security. However, making a quantum computer is incredibly difficult. Despite hundreds of laboratories around the world working on them, we are only just seeing them come close to 'supremacy' where they can outperform a traditional computer. In this approachable introduction, Brian

Clegg explains algorithms and their quantum counterparts, explores the physical building blocks and quantum weirdness necessary to make a quantum computer, and uncovers the capabilities of the current generation of machines. *The Universe Inside You* University Press of Colorado

La moria grandissima began its terrible journey across the European and Asian continents in 1347, leaving unimaginable devastation in its wake. Five years later, twenty-five million people were dead, felled by the scourge that would come to be called the Black Death. *The Great Mortality* is the extraordinary epic account of the worst natural disaster in European history -- a drama of courage, cowardice, misery, madness, and sacrifice that brilliantly

illuminates humankind's darkest days when an old world ended and a new world was born.

A Brief History of Infinity St. Martin's Press

Isaac Newton was born in a stone farmhouse in 1642, fatherless and unwanted by his mother. When he died in London in 1727 he was so renowned he was given a state funeral—an unheard-of honor for a subject whose achievements were in the realm of the intellect. During the years he was an irascible presence at Trinity College, Cambridge, Newton imagined properties of nature and gave them names—mass, gravity, velocity—things our science now takes for granted. Inspired by Aristotle, spurred on by Galileo's discoveries and the philosophy of Descartes, Newton

grasped the intangible and dared to take its measure, a leap of the mind unparalleled in his generation. James Gleick, the author of *Chaos and Genius*, and one of the most acclaimed science writers of his generation, brings the reader into Newton's reclusive life and provides startlingly clear explanations of the concepts that changed forever our perception of bodies, rest, and motion—ideas so basic to the twenty-first century, it can truly be said: We are all Newtonians.

Turing's Cathedral Icon Books
Science, with its inherent tension between the known and the unknown, is an inexhaustible mine of great stories. Collected here are twenty-six among the most enchanting tales, one for each letter of the alphabet: the main

characters are scientists of the highest caliber most of whom, however, are unknown to the general public. This book goes from A to Z. The letter A stands for Abel, the great Norwegian mathematician, here involved in an elliptic thriller about a fundamental theorem of mathematics, while the letter Z refers to Absolute Zero, the ultimate and lowest temperature limit, - 273,15 degrees Celsius, a value that is tremendously cooler than the most remote corner of the Universe: the race to reach this final outpost of coldness is not yet complete, but, similarly to the history books of polar explorations at the beginning of the 20th century, its pages record successes, failures, fierce rivalries and tragic desperations. In between the A and the Z, the other letters of the

alphabet are similar to the various stages of a very fascinating journey along the paths of science, a journey in the company of a very unique set of characters as eccentric and peculiar as those in *Ulysses* by James Joyce: the French astronomer who lost everything, even his mind, to chase the transits of Venus; the caustic Austrian scientist who, perfectly at ease with both the laws of psychoanalysis and quantum mechanics, revealed the hidden secrets of dreams and the periodic table of chemical elements; the young Indian astrophysicist who was the first to understand how a star dies, suffering the ferocious opposition of his mentor for this discovery. Or the Hungarian physicist who struggled with his melancholy in the shadows of the desert

of Los Alamos; or the French scholar who was forced to hide her femininity behind a false identity so as to publish fundamental theorems on prime numbers. And so on and so forth. Twenty-six stories, which reveal the most authentic atmosphere of science and the lives of some of its main players: each story can be read in quite a short period of time -- basically the time it takes to get on and off the train between two metro stations. Largely independent from one another, these twenty-six stories make the book a harmonious polyphony of several voices: the reader can invent his/her own very personal order for the chapters simply by ordering the sequence of letters differently. For an elementary law of Mathematics, this can give rise to an astronomically large

number of possible books -- all the same, but - then again - all different. This book is therefore the ideal companion for an infinite number of real or metaphoric journeys.

The Deep Learning Revolution Cassell

Scale -- Space and time -- Energy and matter -- The quantum world --

Thermodynamics and the arrow of time -

- Unification -- The future of physics --

The usefulness of physics -- Thinking like a physicist.

The Clockwork Universe Harper Collins

An exciting new book about real-life technology derived from science fiction and its impact on the world.

Gravitational Waves Ballantine Books

Have you ever wondered what humans did before numbers existed? How they organized their lives, traded goods, or

kept track of their treasures? What would your life be like without them?

Numbers began as simple

representations of everyday things, but mathematics rapidly took on a life of its own, occupying a parallel virtual world.

In *Are Numbers Real?*, Brian Clegg

explores the way that math has become more and more detached from reality,

and yet despite this is driving the

development of modern physics. From

devising a new counting system based on goats, through the weird and

wonderful mathematics of imaginary numbers and infinity, to the debate over

whether mathematics has too much influence on the direction of science, this

fascinating and accessible book opens

the reader's eyes to the hidden reality of the strange yet familiar entities that are

numbers.

Cracking Quantum Physics Verso Books
Oni, ubiquitous supernatural figures in Japanese literature, lore, art, and religion, usually appear as demons or ogres. Characteristically threatening, monstrous creatures with ugly features and fearful habits, including cannibalism, they also can be harbingers of prosperity, beautiful and sexual, and especially in modern contexts, even cute and lovable. There has been much ambiguity in their character and identity over their long history. Usually male, their female manifestations convey distinctively gendered social and cultural meanings. Oni appear frequently in various arts and media, from Noh theater and picture scrolls to modern fiction and political propaganda, They

remain common figures in popular Japanese anime, manga, and film and are becoming embedded in American and international popular culture through such media. Noriko Reider's book is the first in English devoted to oni. Reider fully examines their cultural history, multifaceted roles, and complex significance as "others" to the Japanese.

A Most Elegant Equation Icon Books Ltd

On 14 September 2015, after 50 years of searching, gravitational waves were detected for the first time and astronomy changed for ever. Until then, investigation of the universe had depended on electromagnetic radiation: visible light, radio, X-rays and the rest. But gravitational waves – ripples in the fabric of space and time – are

unrelenting, passing through barriers that stop light dead. At the two 4-kilometre long LIGO observatories in the US, scientists developed incredibly sensitive detectors, capable of spotting a movement 100 times smaller than the nucleus of an atom. In 2015 they spotted the ripples produced by two black holes spiralling into each other, setting spacetime quivering. This was the first time black holes had ever been directly detected – and it promises far more for the future of astronomy. Brian Clegg presents a compelling story of human technical endeavour and a new, powerful path to understand the workings of the universe.

Dance of the Photons Vintage

A thrilling journey from empty space all the way to the human mind.

The Man Who Changed Everything

Harper Collins

Documents the innovations of a group of eccentric geniuses who developed computer code in the mid-20th century as part of mathematician Alan Turing's theoretical universal machine idea, exploring how their ideas led to such developments as digital television, modern genetics and the hydrogen bomb.

How it All Works Macmillan

A 2019 EDGAR AWARDS NOMINEE (BEST FACT CRIME) • A BANFF MOUNTAIN BOOK AWARDS FINALIST Two modern adventurers sought a treasure possessed by the legendary “Wild Men of Borneo.” One found riches. The other vanished forever into an endless jungle. Had he shed civilization—or lost his

mind? Global headlines suspected murder. Lured by these mysteries, New York Times bestselling author Carl Hoffman journeyed to find the truth, discovering that nothing is as it seems in the world's last Eden, where the lines between sinner and saint blur into one. In 1984, Swiss traveler Bruno Manser joined an expedition to the Mulu caves on Borneo, the planet's third largest island. There he slipped into the forest interior to make contact with the Penan, an indigenous tribe of peace-loving nomads living among the Dayak people, the fabled "Headhunters of Borneo." Bruno lived for years with the Penan, gaining acceptance as a member of the tribe. However, when commercial logging began devouring the Penan's homeland, Bruno led the tribe against

these outside forces, earning him status as an enemy of the state, but also worldwide fame as an environmental hero. He escaped captivity under gunfire twice, but the strain took a psychological toll. Then, in 2000, Bruno disappeared without a trace. Had he become a madman, a hermit, or a martyr? American Michael Palmieri is, in many ways, Bruno's opposite. Evading the Vietnam War, the Californian wandered the world, finally settling in Bali in the 1970s. From there, he staged expeditions into the Bornean jungle to acquire astonishing art and artifacts from the Dayaks. He would become one of the world's most successful tribal-art field collectors, supplying sacred works to prestigious museums and wealthy private collectors. And yet suspicion

shadowed this self-styled buccaneer who made his living extracting the treasure of the Dayak: Was he preserving or exploiting native culture? As Carl Hoffman unravels the deepening riddle of Bruno's disappearance and seeks answers to the questions surrounding both men, it becomes clear saint and sinner are not so easily defined and Michael and Bruno are, in a sense, two parts of one whole: each spent his life in pursuit of the sacred fire of indigenous people. *The Last Wild Men of Borneo* is the product of Hoffman's extensive travels to the region, guided by Penan through jungle paths traveled by Bruno and by Palmieri himself up rivers to remote villages. Hoffman also draws on exclusive interviews with Manser's family and colleagues, and rare access

to his letters and journals. Here is a peerless adventure propelled by the entwined lives of two singular, enigmatic men whose stories reveal both the grandeur and the precarious fate of the wildest place on earth.

Comet Basic Books

Is the Brexit vote successful big data politics or the end of democracy? Why do airlines overbook, and why do banks get it wrong so often? How does big data enable Netflix to forecast a hit, CERN to find the Higgs boson and medics to discover if red wine really is good for you? And how are companies using big data to benefit from smart meters, use advertising that spies on you and develop the gig economy, where workers are managed by the whim of an algorithm? The volumes of data we now

access can give unparalleled abilities to make predictions, respond to customer demand and solve problems. But Big Brother's shadow hovers over it. Though big data can set us free and enhance our lives, it has the potential to create an underclass and a totalitarian state. With big data ever-present, you can't afford to ignore it. Acclaimed science writer Brian Clegg - a habitual early adopter of new technology (and the owner of the second-ever copy of Windows in the UK) - brings big data to life.

The Last Wild Men of Borneo John Wiley & Sons

In this beautiful and unique combination of art and science, this stunningly detailed book examines how the rules of science govern the the world around us, from the rooms in our houses to the

planet, the solar system and the universe itself! The Universe is inconceivably complex. Its component parts though follow a set of unbreakable laws that have somehow been coded into their very fabric since the beginning of time. These laws play out in different ways at different scales, giving rise to the familiar phenomena of everyday life - as well as the unfamiliar abstract goings-on outside our experience and awareness. Understanding these laws may seem a daunting task, until now. How it All Works illustrates simply how the most interesting and complex named scientific laws and phenomena affect everyone's daily lives. Using hyper-detailed scene illustrations from the incredible award-winning artist Adam Dant, we start small, with the illustrated

science inside your kitchen, before expanding outwards to encompass your garden, street, city, continent, planet, solar system, galaxy and eventually the whole universe. With tiny details pulled out from visually stunning and intricate scene, learn how: Kirchhoff's Law affects how you charge your phone, Newton's Law of Cooling helps you make your coffee just the right temperature to drink, How the rules of antimatter are used in hospitals for medical imaging, How Cassie's law keeps ducks dry, How glaciation shapes the landscapes around us, How thermohaline circulation dictates our weather, and How quantum tunnelling influences the nuclear fusion

in our sun, and Wien's Law determines its colour. This book will astound and inform in equal measure, with each principle drawn into the scene and explained with clarity by leading science writer Brian Clegg. With a reference section at the back as well as profiles of the key figures who have helped shape our understanding of these key principles, from Lynn Margulis and Richard Feynman to Marie Curie, Michael Faraday, Isaac Newton and Albert Einstein, this beautiful and unique visual examination of the rules of science is an must-have book for anyone who wants to understand the physics, chemistry and biology of the world around us!