New Scientist Beta

Carl Zimmer

New Scientist ,2003

Why the Universe Exists New Scientist,2017-11-07 WHY IS THERE ALWAYS SOMETHING RATHER THAN NOTHING? As you read this, billions of neutrinos from the sun are passing through your body, antimatter is sprouting from your dinner and the core of your being is a chaotic mess of particles known only as quarks and gluons. Following the recent discovery of the Higgs Boson, Why The Universe Exists takes you deeper into the world of particle physics, exploring how the universe functions at the smallest scales. Find out about the hunt for dark matter, discover how accelerators such as the Large Hadron Collider are rewinding time to the first moments after the big bang, and learn how ghostly neutrino particles may hold the answers to the greatest mysteries of the universe.

The Exquisite Machine Sian E. Harding,2024-02-06 How science is opening up the mysteries of the heart, revealing the poetry in motion within the machine. Your heart is a miracle in motion, a marvel of construction unsurpassed by any human-made creation. It beats 100,000 times every day—if you were to live to 100, that would be more than 3 billion beats across your lifespan. Despite decades of effort in labs all over the world, we have not yet been able to replicate the heart’s perfect engineering. But, as Sian Harding shows us in The Exquisite Machine, new scientific developments are opening up the mysteries of the heart. And this explosion of new science—ultrafast imaging, gene editing, stem cells, artificial intelligence, and advanced sub-light microscopy—has crucial, real-world consequences for health and well-being. Harding—a world leader in cardiac research—explores the relation between the emotions and heart function, reporting that the heart not only responds to our emotions, it creates them as well. The condition known as Broken Heart Syndrome, for example, is a real disorder than can follow bereavement or stress. The Exquisite Machine describes the evolutionary forces that have shaped the heart’s response to damage, the astonishing rejuvenating power of stem cells, how we can avoid heart disease, and why it can be so hard to repair a damaged heart. It tells the stories of patients who have had the devastating experiences of a heart attack, chaotic heart rhythms, or stress-induced acute heart failure. And it describes how cutting-edge technologies are enabling experiments and clinical trials that will lead us to new solutions to the worldwide scourge of heart disease.

Microcosm Carl Zimmer,2008-05-06 A Best Book of the YearSeed Magazine • Granta Magazine • The Plain-DealerIn this fascinating and utterly engaging book, Carl Zimmer traces E. coli's pivotal role in the history of biology, from the discovery of DNA to the latest advances in biotechnology. He reveals the many surprising and alarming parallels between E. coli's life and our own. And he describes how E. coli changes in real time, revealing billions of years of history encoded within its genome. E. coli is also the most engineered species on Earth, and as scientists retool this microbe to produce life-saving drugs and clean fuel, they are discovering just how far the definition of life can be stretched.

Eureka Chad Orzel,2014-12-09 When it comes to science, too often people say I just don't have the brains for it -- and leave it at that. Why is science so intimidating, and why do people let themselves feel this way? What makes one person a scientist and another disinclined even to learn how to read graphs? The idea that scientists are people who wear lab coats and are somehow smarter than the rest of us is a common, yet dangerous, misconception that puts science on an intimidating pedestal. How did science become so divorced from everyday experience? In Eureka, science popularizer Chad Orzel argues that even the people who are most forthright about hating science are doing science, often without even knowing it. Orzel shows that science is central to the human experience:

every human can think like a scientist, and regularly does so in the course of everyday activities. The common misconception is that science is a body of (boring, abstract, often mathematical) facts. In truth, science is a process: Looking at the world, Thinking about what makes it work, Testing your mental model by comparing it to reality, and Telling others about your results -- all things that people do daily. By revealing the connection between the everyday activities that people do -- solving crossword puzzles, playing sports, or even watching mystery shows on television -- and the processes used to make great scientific discoveries, Eureka shows that this process is one everybody uses regularly, and something that anyone can do.

Redesigning Life John Parrington,2016-07-07 Since the birth of civilisation, human beings have manipulated other life-forms. We have selectively bred plants and animals for thousands of years to maximize agricultural production and cater to our tastes in pets. The observation of the creation of artificial animal and plant variants was a key stimulant for Charles Darwin's theory of evolution. The ability to directly engineer the genomes of organisms first became possible in the 1970s, when the gene for human insulin was introduced into bacteria to produce this protein for diabetics. At the same time, mice were modified to produce human growth hormone, and grew huge as a result. But these were only our first tottering steps into the possibilities of genetic engineering. In the past few years, the pace of progress has accelerated enormously. We can now cut and paste genes using molecular scissors with astonishing ease, and the new technology of genome editing can be applied to practically any species of plants or animals. 'Mutation chain reaction' can be used to alter the genes of a population of pests, such as flies; as the modified creatures breed, the mutation is spread through the population, so that within a few generations the organism is almost completely altered. At the same time, scientists are also beginning to synthesize new organisms from scratch. These new technologies hold much promise for improving lives. Genome editing has already been used clinically to treat AIDS patients, by genetically modifying their white blood cells to be resistant to HIV. In agriculture, genome editing could be used to engineer species with increased food output, and the ability to thrive in challenging climates. New bacterial forms may be used to generate energy. But these powerful new techniques also raise important ethical dilemmas and potential dangers, pressing issues that are already upon us given the speed of scientific developments. To what extent should parents be able to manipulate the genetics of their offspring - and would designer babies be limited to the rich? Can we effectively weigh up the risks from introducing synthetic lifeforms into complex ecosystems? John Parrington explains the nature and possibilities of these new scientific developments, which could usher in a brave, new world. We must rapidly come to understand its implications if we are to direct its huge potential to the good of humanity and the planet.

The New Science of the Fundamental Physics William Walker Strong,1918

Radioactivity Marjorie C. Malley,2011-08-25 This is the story of a new science. Beginning with an obscure discovery in 1896, radioactivity led researchers on a quest for understanding that ultimately confronted the intersection of knowledge and mystery. Mysterious from the start, radioactivity attracted researchers who struggled to understand it. What caused certain atoms to give off invisible, penetrating rays? Where did the energy come from? These questions became increasingly pressing when researchers realized the process seemed to continue indefinitely, producing huge quantities of energy. Investigators found cases where radioactivity did change, forcing them to the startling conclusion that radioactive bodies were transmuting into other substances. Chemical elements were not immutable after all. Radioactivity produced traces of matter so minuscule and evanescent that researchers had to devise new techniques and instruments to investigate them. Scientists in many countries, but especially in

laboratories in Paris, Manchester, and Vienna unraveled the details of radioactive transformations. They created a new science with specialized techniques, instruments, journals, and international conferences. Women entered the field in unprecedented numbers. Experiments led to revolutionary ideas about the atom and speculations about atomic energy. The excitement spilled over to the public, who expected marvels and miracles from radium, a scarce element discovered solely by its radioactivity. The new phenomenon enkindled the imagination and awakened ancient themes of literature and myth. Entrepreneurs created new industries, and physicians devised novel treatments for cancer. Radioactivity gave archaeologists methods for dating artifacts and meteorologists a new explanation for the air's conductivity. Their explorations revealed a mysterious radiation from space. Radioactivity profoundly changed science, politics, and culture. The field produced numerous Nobel Prize winners, yet radioactivity's talented researchers could not solve the mysteries underlying the new phenomenon. That was left to a new generation and a new way of thinking about reality. Radioactivity presents this fascinating history in a way that is both accessible and appealing to the general reader. Not merely a historical account, the book examines philosophical issues connected with radioactivity, and relates its topics to broader issues regarding the nature of science.

Making PCR Paul Rabinow,2011-11-27 Making PCR is the fascinating, behind-the-scenes account of the invention of one of the most significant biotech discoveries in our time—the polymerase chain reaction. Transforming the practice and potential of molecular biology, PCR extends scientists' ability to identify and manipulate genetic materials and accurately reproduces millions of copies of a given segment in a short period of time. It makes abundant what was once scarce—the genetic material required for experimentation. Making PCR explores the culture of biotechnology as it emerged at Certus Corporation during the 1980s and focuses on its distinctive configuration of scientific, technical, social, economic, political, and legal elements, each of which had its own separate trajectory over the preceding decade. The book contains interviews with the remarkable cast of characters who made PCR, including Kary Mullin, the maverick who received the Nobel prize for discovering it, as well as the team of young scientists and the company's business leaders. This book shows how a contingently assembled practice emerged, composed of distinctive subjects, the site where they worked, and the object they invented. Paul Rabinow paints a . . . picture of the process of discovery in Making PCR: A Story of Biotechnology [and] teases out every possible detail. . . . Makes for an intriguing read that raises many questions about our understanding of the twisting process of discovery itself.—David Bradley, New Scientist Rabinow's book belongs to a burgeoning genre: ethnographic studies of what scientists actually do in the lab. . . . A bold move.—Daniel Zalewski, Lingua Franca [Making PCR is] exotic territory, biomedical research, explored. . . . Rabinow describes a dance: the immigration and repatriation of scientists to and from the academic and business worlds.—Nancy Maull, New York Times Book Review

The Alzheimer's Project John Hoffman,Susan Froemke,2009-05-12 This companion book to the HBO Documentary Films series explores the cutting-edge research on Alzheimer's disease that is creating new hope for the future. Alzheimer's disease is the second most-feared illness in America, following cancer. It affects as many as 5 million Americans, a number that could soar to 16 million by 2050. It is estimated that, unless effective preventions are discovered, 10 million baby boomers will eventually develop this irreversible and devastating brain disorder. Until recently, medical news on Alzheimer’s disease was not comforting. But in the past few years, advances in many scientific areas—from diagnostic imaging to genetic analysis—have led to an explosion of knowledge with implications for treatment and prevention. This is an exciting time of discovery in Alzheimer's research. Through The Alzheimer’s

Project film series, HBO Documentary Films illuminates the vital breakthroughs occurring in the field. One of the central films in this series, Momentum in Science, brings us inside the laboratories and clinics of the nation’s top scientists and physicians who are clearing the path to a deeper understanding of Alzheimer’s disease. By capturing the exhilaration of these scientists and casting light on their groundbreaking discoveries, the film seeks to bring a wider understanding of the disease and new hope for future treatment. This book offers an even closer look at the advances of this scientific frontier. It investigates the complex cascade of events that occurs inside the brain when someone has Alzheimer’s disease and shows how scientists are working to interrupt this process and ultimately prevent the disease. In accessible prose, it examines specific evidence of momentous progress, from the triumphant discovery of the unique role of the beta-amyloid and tau proteins, to the use of PET scans to track changes in the brain and the analyses of cerebrospinal fluid to identify biomarkers that will help us predict who will develop the disease in the future. It also looks at current drug development and at what we can do as individuals to potentially reduce our risk of developing the disease. The Alzheimer’s Project: Momentum in Science is a fascinating story of scientific discovery that shows what recent breakthroughs might mean for improving our chances of remaining cognitively vital throughout a long life.

New Scientist ,2009

The Magicians Marcus Chown,2020-02-18 The spellbinding stories of the scientists whose eureka! breakthroughs in modern physics reveal science's astonishing predictive power. 'An excellent popular science book.' DARA Ó BRIAIN 'A thoroughly informative and entertaining read.' ANNA BURNS, Booker Prize-winning author of Milkman 'One of the best-written books about phsyics I have ever come across.' POPULAR SCIENCE 'Highly entertaining and accessible.' IRISH TIMES 'Fascinating, life enhancing entertainment.' PROSPECT 'Thoroughly enjoyable . . . Chown has down it again.' BBC SKY AT NIGHT The Magicians takes us on a breathtaking, mind-altering tour of the eureka! moments of modern physics. Charting the spellbinding stories of the scientists who predicted and discovered the existence of unknown planets, black holes, invisible force fields, ripples in the fabric of space-time, unsuspected subatomic particles and even antimatter, Marcus Chown reveals science's greatest mystery: its astonishing predictive power.

The New Science and the Old Religion Thornwell Jacobs,1927

Protein Structure and Function Gregory A. Petsko,Dagmar Ringe,2004 Each title in the 'Primers in Biology' series is constructed on a modular principle that is intended to make them easy to teach from, to learn from, and to use for reference.

Order and Disorder Myron Kaufman,2011 Order and Disorder is a non-mathematical introduction to the most important ideas in science for university students not majoring in a scientific area. The objective is to prepare non-science students for making both life and political decisions involving science and helping them to understand the advances in sciences as covered and reported in the mass media. The book is highly comprehensive in physics and chemistry, and provides the essential background to discuss and gain a better appreciation of selected topics in biological and neurological sciences, as well as astronomy and geology. The topics are integrated with the recurring theme of order and disorder, the organization achieved in the face of the never-ending drive towards disorganization. The book also lends an insight into some considerations of the philosophy of science, as well as the applications of science to health and a variety of other professions. The reading experience is enhanced by the provision of illuminating examples, supplementary reading and a summary of each chapter. New terminologies, that appear here for the first time, are set off in bold italics and annotated in the glossary. Where basic principles are introduced and explained, these are highlighted prominently in bold

for ease of reference. Stimulating discussion questions are presented at the end of each chapter, giving readers some food for thought.

Brave Genius Sean B. Carroll,2013-09-24 The never-before-told account of the intersection of some of the most insightful minds of the 20th century, and a fascinating look at how war, resistance, and friendship can catalyze genius. In the spring of 1940, the aspiring but unknown writer Albert Camus and budding scientist Jacques Monod were quietly pursuing ordinary, separate lives in Paris. After the German invasion and occupation of France, each joined the Resistance to help liberate the country from the Nazis and ascended to prominent, dangerous roles. After the war and through twists of circumstance, they became friends, and through their passionate determination and rare talent they emerged as leading voices of modern literature and biology, each receiving the Nobel Prize in their respective fields. Drawing upon a wealth of previously unpublished and unknown material gathered over several years of research, Brave Genius tells the story of how each man endured the most terrible episode of the twentieth century and then blossomed into extraordinarily creative and engaged individuals. It is a story of the transformation of ordinary lives into exceptional lives by extraordinary events--of courage in the face of overwhelming adversity, the flowering of creative genius, deep friendship, and of profound concern for and insight into the human condition.

Electric Brain R. Douglas Fields,2020-02-04 What is as unique as your fingerprints and more revealing than your diary? Hint: Your body is emitting them right now and has been every single day of your life. Brainwaves. Analyzing brainwaves, the imperceptible waves of electricity surging across your scalp, has been possible for nearly a century. But only now are neuroscientists becoming aware of the wealth of information brainwaves hold about a person's life, thoughts, and future health. From the moment a reclusive German doctor discovered waves of electricity radiating from the heads of his patients in the 1920s, brainwaves have sparked astonishment and intrigue, yet the significance of the discovery and its momentous implications have been poorly understood. Now, it is clear that these silent broadcasts can actually reveal a stunning wealth of information about any one of us. In Electric Brain, world-renowned neuroscientist and author R. Douglas Fields takes us on an enthralling journey into the world of brainwaves, detailing how new brain science could fundamentally change society, separating fact from hyperbole along the way. In this eye-opening and in-depth look at the most recent findings in brain science, Fields explores groundbreaking research that shows brainwaves can: • Reveal the type of brain you have—its strengths and weaknesses and your aptitude for learning different types of information • Allow scientists to watch your brain learn, glean your intelligence, and even tell how adventurous you are • Expose hidden dysfunctions—including signifiers of mental illness and neurological disorders • Render your thoughts and transmit them to machines and back from machines into your brain • Meld minds by telepathically transmitting information from one brain to another • Enable individuals to rewire their own brains and improve cognitive performance Written by one of the neuroscientists on the cutting edge of brainwave research, Electric Brain tells a fascinating and obscure story of discovery, explains the latest science, and looks to the future—and the exciting possibilities in store for medicine, technology, and our understanding of ourselves.

Satisfaction Gregory Berns,2006-08-08 Draws on such fields as neuoscience, economics, and evolutionary psychology to address the question of how to find a more satisfying way to live, arguing that the key to satisfaction lies in the complexity and challenge in one's life.

New Scientist: The Origin of (almost) Everything New Scientist,Graham Lawton,2016-10-25 From what actually happened in

the Big Bang to the accidental discovery of post-it notes, the history of science is packed with surprising discoveries. Did you know, for instance, that if you were to get too close to a black hole it would suck you up like a noodle (it's called spaghettification), why your keyboard is laid out in QWERTY (it's not to make it easier to type) or why animals never evolved wheels? New Scientist does. And now they and award-winning illustrator Jennifer Daniel want to take you on a colorful, whistle-stop journey from the start of our universe (through the history of stars, galaxies, meteorites, the Moon and dark energy) to our planet (through oceans and weather and oil) and life (through dinosaurs to emotions and sex) to civilization (from cities to alcohol and cooking), knowledge (from alphabets to alchemy) ending up with technology (computers to rocket science). Witty essays explore the concepts alongside enlightening infographics that zoom from how many people have ever lived, to showing you how a left-wing brain differs from a right-wing one...

How to Be Human New Scientist,2017-09-21 If you thought you knew who you were, THINK AGAIN. Did you know that half your DNA isn't human? That somebody, somewhere has exactly the same face? Or that most of your memories are fiction? What about the fact that you are as hairy as a chimpanzee, various parts of your body don't belong to you, or that you can read other people's minds? Do you really know why you blush, yawn and cry? Why 90 per cent of laughter has nothing to do with humour? Or what will happen to your mind after you die? You belong to a unique, fascinating and often misunderstood species. How to be Human is your guide to making the most of it.

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **New Scientist Beta**

In a global inundated with screens and the cacophony of fast communication, the profound power and psychological resonance of verbal artistry usually disappear in to obscurity, eclipsed by the constant assault of sound and distractions. Yet, located within the lyrical pages of **New Scientist Beta**, a interesting work of literary beauty that impulses with raw feelings, lies an memorable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus instructions viewers on a psychological odyssey, gently exposing the latent potential and profound influence embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central subjects, dissect its fascinating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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