

Genius The Life And Science Of Richard Feynman James Gleick

What is genius? Define it. Now think of scientists who embody the concept of genius. Does the name John Bardeen spring to mind? Indeed, have you ever heard of him? Like so much in modern life, immediate name recognition often rests on a cult of personality. We know Einstein, for example, not just for his tremendous contributions to science, but also because he was a character, who loved to mug for the camera. And our continuing fascination with Richard Feynman is not exclusively based on his body of work; it is in large measure tied to his flamboyant nature and offbeat sense of humor. These men, and their outsize personalities, have come to erroneously symbolize the true nature of genius and creativity. We picture them born brilliant, instantly larger than life. But is that an accurate picture of genius? What of others who are equal in stature to these icons of science, but whom history has awarded only a nod because they did not readily engage the public? Could a person qualify as a bona fide genius if he was a regular Joe? The answer may rest in the story of John Bardeen. John Bardeen was the first person to have been awarded two Nobel Prizes in the same field. He shared one with William Shockley and Walter Brattain for the invention of the transistor. But it was the charismatic Shockley who garnered all the attention, primarily for his Hollywood ways and notorious views on race and intelligence. Bardeen's second Nobel Prize was awarded for the development of a theory of superconductivity, a feat that had eluded the best efforts of leading theorists -- including Albert Einstein, Neils Bohr, Werner Heisenberg, and Richard Feynman. Arguably, Bardeen's work changed the world in more ways than that of any other scientific genius of his time. Yet while every school child knows of Einstein, few people have heard of John Bardeen. Why is this the case? Perhaps because Bardeen differs radically from the popular stereotype of genius. He was a modest, mumbling Midwesterner, an ordinary person who worked hard and had a knack for physics and mathematics. He liked to picnic with his family, collaborate quietly with colleagues, or play a round of golf. None of that was newsworthy, so the media, and consequently the public, ignored him. John Bardeen simply fits a new profile of genius. Through an exploration of his science as well as his life, a fresh and thoroughly engaging portrait of genius and the nature of creativity emerges. This perspective will have readers looking anew at what it truly means to be a genius.

New York Times Bestseller: This life story of the quirky physicist is “a thorough and masterful portrait of one of the great minds of the century” (The New York Review of Books). Raised in Depression-era Rockaway Beach, physicist Richard Feynman was irreverent, eccentric, and childishly enthusiastic—a new kind of scientist in a field that was in its infancy. His quick mastery of quantum mechanics earned him a place at Los Alamos working on the Manhattan Project under J. Robert Oppenheimer, where the giddy young man held his own among the nation’s greatest minds. There, Feynman

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turned theory into practice, culminating in the Trinity test, on July 16, 1945, when the Atomic Age was born. He was only twenty-seven. And he was just getting started. In this sweeping biography, James Gleick captures the forceful personality of a great man, integrating Feynman's work and life in a way that is accessible to laymen and fascinating for the scientists who follow in his footsteps.

Features information on eight different scientists and the struggles they had in convincing the world that their revolutionary ideas were correct, including such figures as Nikola Tesla, Charles Darwin, and Ignaz Semmelweis. Isaac Newton is now universally celebrated as a genius of science, renowned for his innovatory work on gravity and optics. Yet Newton did not always enjoy such legendary status. His posthumous reputation has constantly changed and is riddled with contradictions. NEWTON investigates the different ways in which Newton's life and works have been interpreted at different times. It charts his transformation into a scientific genius, explaining the changing attitude of the scientific community towards Newton's ideas, from Berkeley to Einstein. It also explores the making of Newton the national hero, through the myths that surround him and the many artistic and literary descriptions of him. NEWTON tells the fascinating story of Newton's reputation, shedding light on the growth of science generally and on our changing attitude towards our intellectual heritage. 'Fara's brilliant book is not so much a biography as the story of a phenomenon . . . fascinating' Scotsman 'Fara does not debunk Newton as recent novelists have but delivers him more whole and greater than ever' Sunday Herald

Yo-Yo Ma's ear for music emerged not long after he learned to walk. By the age of seven, he was performing for President Kennedy; by fifteen he debuted at Carnegie Hall. Maya Angelou, by contrast, didn't write her iconic memoir, I Know Why the Caged Bird Sings, until she was 40. What propels some individuals to reach extraordinary creative heights in the earliest years of life while others discover their passions decades later? Are prodigies imbued with innate talent? How often are midlife inspirations triggered by propitious events, like Julia Child's first French meal at the age of 36? Do late bloomers reveal their talents because their skills require life experience and contemplation? Through engaging storytelling and intriguing historical and cutting-edge scientific research, best-selling author and acclaimed journalist Claudia Kalb explores these questions to uncover what makes a prodigy and what drives a late bloomer. In this series of linked biographies, Kalb follows the journeys of thirteen remarkable individuals--from Shirley Temple to Alexander Fleming to Eleanor Roosevelt to Bill Gates--to discover the secrets behind their talents. Each possessed a unique arc of inspiration. Each--through science, art, music, theater, and politics--reached extraordinary success at different stages of life. And each offers us a chance to explore the genesis--and experience--of genius.

Robert Kanigel takes us into the heady world of a remarkable group of scientists working at the National Institutes of

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Health and the Johns Hopkins University: a dynasty of American researchers who for over forty years have made Nobel Prize- and Lasker Award-winning breakthroughs in biomedical science.

Shows how the most creative minds in science used tools that can help us improve our creative abilities. Geniuses are not omnipotent. They are just very skilled at employing the creativity toolbox highlighted in this book, including finding the right question, observation, analogy, changing point of view, dissection, reorganization, the power of groups, and frame shifting.

Nikola Tesla was an engineer and scientist known for designing the alternating-current (AC) electric system, which is the predominant electrical system used across the world today. He also created the "Tesla coil," which is still used in radio technology. Born in modern-day Croatia, Tesla came to the United States in 1884 and briefly worked with Thomas Edison before the two parted ways. He sold several patent rights, including those to his AC machinery, to George Westinghouse. "Our virtues and our failings are inseparable, like force and matter. When they separate, man is no more." - Nikola Tesla This is Nikola Tesla's descriptive and concise biography.

Winner of the 2017 JPBM Communications Award for Expository and Popular Books. "A delightful meta-biography--playful indeed--of a brilliant iconoclast." --James Gleick, author of *The Information* John Horton Conway is a singular mathematician with a lovely loopy brain. He is Archimedes, Mick Jagger, Salvador Dali, and Richard Feynman all rolled into one--he boasts a rock star's charisma, a slyly bent sense of humor, a polymath's promiscuous curiosity, and an insatiable compulsion to explain everything about the world to everyone in it. At Cambridge, Conway wrestled with "Monstrous Moonshine," discovered the aptly named surreal numbers, and invented the cult classic *Game of Life*--more than just a cool fad, *Life* demonstrates how simplicity generates complexity and provides an analogy for mathematics and the entire universe. As a "mathemagician" at Princeton, he used ropes, dice, pennies, coat hangers, even the occasional Slinky, as props to extend his winning imagination and share his many nerdish delights. He granted Roberts full access to his idiosyncrasies and intellect both, though not without the occasional grumble: "Oh hell," he'd say. "You're not going to put that in the book. Are you?!?"

"The story of one of the most prolific, independent, and iconoclastic inventors of this century . . . fascinating."--*Scientific American* Nikola Tesla (1856-1943), credited as the inspiration for radio, robots, and even radar, has been called the patron saint of modern electricity. Based on original material and previously unavailable documents, this acclaimed book is the definitive biography of the man considered by many to be the founding father of modern electrical technology. Among Tesla's creations were the channeling of alternating current, fluorescent and neon lighting, wireless telegraphy, and the giant turbines that harnessed the power of Niagara Falls. This essential biography is illustrated with sixteen pages of photographs, including the July 20, 1931, *Time* magazine cover for an issue celebrating the inventor's career. "A deep and comprehensive biography of a great engineer of early electrical science--likely to become the definitive biography. Highly recommended."--American Association for the Advancement of

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Science "Seifer's vivid, revelatory, exhaustively researched biography rescues pioneer inventor Nikola Tesla from cult status and restores him to his rightful place as a principal architect of the modern age." --Publishers Weekly Starred Review "[Wizard] brings the many complex facets of [Tesla's] personal and technical life together in to a cohesive whole....I highly recommend this biography of a great technologist." --A.A. Mullin, U.S. Army Space and Strategic Defense Command, COMPUTING REVIEWS "[Along with A Beautiful Mind] one of the five best biographies written on the brilliantly disturbed."--WALL STREET JOURNAL "Wizard is a compelling tale presenting a teeming, vivid world of science, technology, culture and human lives."--NEW SCIENTIST "Marc Seifer is an excellent writer and scholar, who has produced a wonderfully readable and illuminating biography of one of the most intriguing men of this century...mak[ing] us understand not only the man, but also the times in which he lived....[A] masterpiece."--NELSON DEMILLE "The author presents much new material...[and] bases his book on a large number of archival and primary sources....Underneath the layers of hero worship, the core of Seifer's book is a serious piece of scholarship." --Ronald Kline, SCIENTIFIC AMERICAN "Seifer has done a remarkable job going through all the Tesla manuscripts...ferret[ing] out hundreds of newspaper and magazine articles in which he traces out Tesla's public image [and] offers a reasonable reconstruction of Tesla's emotional world...Seifer has significantly advanced our understanding of Tesla."--Bernard Carlson, author of Tesla: Inventor of the Electrical Age, for ISIS "It is my opinion that Dr. Seifer leads the world as the most authoritative of all the Tesla researchers."--J.W. McGINNIS, President, International Tesla Society "Far and away the best job among Tesla biographies."--Jeffrey D. Kooistra, INFINITE ENERGY "Wizard is...utterly absorbing with chapters charting all stages of Tesla's life...Seifer treats his prodigious subject with sympathy and realism."--NEXUS "Wizard...presents a much more accurate...picture of Tesla.... [It] is thorough, informative, entertaining and a valuable addition to electrotechnological history, past and future."--ELECTRONIC ENGINEERING TIMES "In modern times, Tesla may be enjoying a comeback thanks to books like Wizard."--THE NEW YORK TIMES

"A groundbreaking manifesto on the countless ways Jesus of Nazareth transformed our world--and empowers us to live lives of courage, purpose, and grace today. From the bestselling author of The Last Arrow and The Way of the Warrior. In every realm of our existence--art, technology, mathematics--we are captivated by stories of genius. Geniuses violate the status quo, destabilize old ways of thinking, and ultimately disrupt history by making us see the world differently. We see this effect when we consider the canon of history's great geniuses, from Leonardo da Vinci to Steve Jobs. But when we look for the genius who left the most lasting impact on human life--our search for truth; our desire to know who we are; our notion that happiness is about more than seeking to serve ourselves--we inevitably encounter Jesus. Despite having lived in obscurity for most his life, Jesus of Nazareth is undeniably one of the most influential people to have ever walked the face of the earth. In The Genius of Jesus, Erwin Raphael McManus asks: what would happen if we studied and emulated Jesus, not only through the lens of his divinity, but as a genius who showed us what it means to live fully human? Drawing on scripture, history, and stories from his own ministry, McManus dives into the nuances of Jesus's words and actions, showing how they can not only inspire us, but transform how we think about humility,

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freedom, and the purpose that makes our lives worth living. For Christians who want to better know and understand their faith, or for readers who want to create their most powerful future, *The Genius of Jesus* is a thought-provoking study of the most important person who ever lived"--

A prismatic look at the meeting of Marie Curie and Albert Einstein and the impact these two pillars of science had on the world of physics, which was in turmoil. In 1911, some of the greatest minds in science convened at the First Solvay Conference in Physics, a meeting like no other. Almost half of the attendees had won or would go on to win the Nobel Prize. Over the course of those few days, these minds began to realize that classical physics was about to give way to quantum theory, a seismic shift in our history and how we understand not just our world, but the universe. At the center of this meeting were Marie Curie and a young Albert Einstein. In the years preceding, Curie had faced the death of her husband and soul mate, Pierre. She was on the cusp of being awarded her second Nobel Prize, but scandal erupted all around her when the French press revealed that she was having an affair with a fellow scientist, Paul Langevin. The subject of vicious misogynist and xenophobic attacks in the French press, Curie found herself in a storm that threatened her scientific legacy. Albert Einstein proved an supporter in her travails. They had an instant connection at Solvay. He was young and already showing flourishes of his enormous genius. Curie had been responsible for one of the greatest discoveries in modern science (radioactivity) but still faced resistance and scorn. Einstein recognized this grave injustice, and their mutual admiration and respect, borne out of this, their first meeting, would go on to serve them in their paths forward to making history. Curie and Einstein come alive as the complex people they were in the pages of *The Soul of Genius*. Utilizing never before seen correspondance and notes, Jeffrey Orens reveals the human side of these brilliant scientists, one who pushed boundaries and demanded equality in a man's world, no matter the cost, and the other, who was destined to become synonymous with genius.

A portrait of the late Nobel Prize-winning physicist recounts his early enthusiasm for science, work on the atom bomb, and inquiry into the Challenger explosion

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From the Sunday Times bestselling author of *The Man Who Couldn't Stop*. 'Witty, sharp and enlightening . . . This book will make you smarter' Adam Rutherford. What if you have more intelligence than you realize? What if there is a genius inside you, just waiting to be released? And what if the route to better brain power is not hard work or thousands of hours of practice but to simply swallow a pill? In *The Genius Within*, bestselling author David Adam explores the ground-breaking neuroscience of cognitive enhancement that is changing the way the brain and the mind works – to make it better, sharper, more focused and, yes, more intelligent. Sharing his own experiments with revolutionary smart drugs and electrical brain stimulation, he delves into the sinister history of intelligence tests, meets savants and brain hackers and reveals how he boosted his own IQ to cheat his way into Mensa. Going to the heart of how we consider, measure and judge mental ability, *The Genius Within* asks difficult questions about the science that could rank and define us, and inevitably shape our future.

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Traces the friendship and collaborative achievements of 20th-century intellectuals Albert Camus and Jacques Monod, discussing their contributions to the French Resistance, Nobel Prize-winning work and passionate advocacy of human rights.

“Lovely, celebratory. For all the belittling of ‘bird brains,’ [Ackerman] shows them to be uniquely impressive machines . . .” —New York Times Book Review “A lyrical testimony to the wonders of avian intelligence.” —Scientific American An award-winning science writer tours the globe to reveal what makes birds capable of such extraordinary feats of mental prowess Birds are astonishingly intelligent creatures. According to revolutionary new research, some birds rival primates and even humans in their remarkable forms of intelligence. In *The Genius of Birds*, acclaimed author Jennifer Ackerman explores their newly discovered brilliance and how it came about. As she travels around the world to the most cutting-edge frontiers of research, Ackerman not only tells the story of the recently uncovered genius of birds but also delves deeply into the latest findings about the bird brain itself that are shifting our view of what it means to be intelligent. At once personal yet scientific, richly informative and beautifully written, *The Genius of Birds* celebrates the triumphs of these surprising and fiercely intelligent creatures.

Ackerman is also the author of *Birds by the Shore: Observing the Natural Life of the Atlantic Coast*.

One of the most famous science books of our time, the phenomenal national bestseller that "buzzes with energy, anecdote and life. It almost makes you want to become a physicist" (*Science Digest*). Richard P. Feynman, winner of the Nobel Prize in physics, thrived on outrageous adventures. In this lively work that "can shatter the stereotype of the stuffy scientist" (*Detroit Free Press*), Feynman recounts his experiences trading ideas on atomic physics with Einstein and cracking the uncrackable safes guarding the most deeply held nuclear secrets—and much more of an eyebrow-raising nature. In his stories, Feynman's life shines through in all its eccentric glory—a combustible mixture of high intelligence, unlimited curiosity, and raging chutzpah. Included for this edition is a new introduction by Bill Gates.

A groundbreaking book that sheds new light on the vital importance of teams as the fundamental unit of organization and competition in the global economy. Teams—we depend on them for both our professional success and our personal happiness. But isn't it odd how little scrutiny we give them? The teams that make up our lives are created mostly by luck, happenstance, or circumstance—but rarely by design. In trivial matters—say, a bowling team, the leadership of a neighborhood group, or a holiday party committee—success by serendipity is already risky enough. But when it comes to actions by fast-moving start-ups, major corporations, nonprofit institutions, and governments, leaving things to chance can be downright dangerous. Offering vivid reports of the latest scientific research, compelling case studies, and great storytelling, *Team Genius* shows managers and executives that the planning, design, and management of great teams no longer have to be a black art. It explores solutions to essential questions that could spell the difference between success and obsolescence. Do you know how to reorganize your subpar teams to turn them into top performers? Can you identify which of the top-performing teams in your company are reaching the end of their life span? Do you have the courage to shut them down? Do you know how to create a replacement team that will be just as effective—without losing time or damaging morale? And, most important, are your teams the right size for the job? Throughout, Rich Karlgaard and Michael S. Malone share insights and real-life examples gleaned from their careers as journalists, analysts, investors, and globetrotting entrepreneurs, meeting successful teams and team leaders to reveal some "new truths": The right team size is usually one fewer person than what managers think they need. The greatest question facing good teams is not how to succeed, but how to die. Good "chemistry" often makes for the least effective teams. Cognitive diversity yields the highest performance gains—but only if you understand what it is. How to find the "bliss point" in team intimacy—and become three times more productive. How to identify destructive team members before they do harm.

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Why small teams are 40 percent more likely to create a successful breakthrough than a solo genius is. Why groups of 7 (± 2), 150, and 1,500 are magic sizes for teams. Eye-opening, grounded, and essential, *Team Genius* is the next big idea to revolutionize business.

This inspiring and inventive guide teaches readers how to develop their full potential by following the example of the greatest genius of all time, Leonardo da Vinci. Acclaimed author Michael J. Gelb, who has helped thousands of people expand their minds to accomplish more than they ever thought possible, shows you how. Drawing on Da Vinci's notebooks, inventions, and legendary works of art, Gelb introduces Seven Da Vincian Principles—the essential elements of genius—from *curiosità*, the insatiably curious approach to life to *connessione*, the appreciation for the interconnectedness of all things. With Da Vinci as your inspiration, you will discover an exhilarating new way of thinking. And step-by-step, through exercises and provocative lessons, you will harness the power—and awesome wonder—of your own genius, mastering such life-changing abilities as:

- Problem solving
- Creative thinking
- Self-expression
- Enjoying the world around you
- Goal setting and life balance
- Harmonizing body and mind

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James Watson, J. Craig Venter, Francis Collins, Cynthia Kenyon . . . you may not know them, but you should. They are the masterminds of genetics and biotechnology who want you to live to be 150 years old, to regenerate your heart and brain, to create synthetic life. For better or worse, they are about to alter life on earth forever. Award-winning journalist David Ewing Duncan tells the remarkable stories of cutting-edge bioscientists, revealing their quirky, uniquely fascinating, sometimes vaguely unsettling personas as a means to understand their science and the astonishing implications of their work. This book seamlessly combines myth, biography, scholarship, and wit that poses the all-important question: Can we actually trust these masterminds?

New York Times Bestseller Discover the critical link between your brain and the food you eat and change the way your brain ages, in this cutting-edge, practical guide to eliminating brain fog, optimizing brain health, and achieving peak mental performance from media personality and leading voice in health Max Lugavere. After his mother was diagnosed with a mysterious form of dementia, Max Lugavere put his successful media career on hold to learn everything he could about brain health and performance. For the better half of a decade, he consumed the most up-to-date scientific research, talked to dozens of leading scientists and clinicians around the world, and visited the country's best neurology departments—all in the hopes of understanding his mother's condition. Now, in *Genius Foods*, Lugavere presents a comprehensive guide to brain optimization. He uncovers the stunning link between our dietary and lifestyle choices and our brain functions, revealing how the foods you eat directly affect your ability to focus, learn, remember, create, analyze new ideas, and maintain a balanced mood. Weaving together pioneering research on dementia prevention, cognitive optimization, and nutritional psychiatry, Lugavere distills groundbreaking science into actionable lifestyle changes. He shares invaluable insights into how to improve your brain power, including the nutrients that can boost your memory and improve mental clarity (and where to find them); the foods and tactics that can energize and rejuvenate your brain, no matter your age; a brain-boosting fat-loss method so powerful it has been called “biochemical liposuction”; and the foods that can improve your happiness, both now and for the long term. With *Genius Foods*, Lugavere offers a cutting-edge yet practical road

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map to eliminating brain fog and optimizing the brain's health and performance today—and decades into the future.

The author of the New York Times bestselling *Genius Foods* is back with a lifestyle program for resetting your brain and body to its “factory settings,” to help fight fatigue, anxiety, and depression and to optimize cognitive health for a longer and healthier life. The human body was honed under conditions that no longer exist. The modern world has changed dramatically since our days as hunter gatherers, and it has caused widespread anxiety, stress, and disease, leaving our brains in despair. But science proves that the body and brain can be healed with the intervention of lifestyle protocols that help us to regain our cognitive birthright. In *The Genius Life*, Lugavere expands the *Genius Foods* plan, which focused on nutrition and how it affects brain health, and expands it to encompass a full lifestyle protocol. We know now that the health of our brains—including our cognitive function and emotional wellness—depend on the health of our gut, endocrine, cardiac and nervous systems as there is a constant feedback loop between all systems. Drawing on globe-spanning research into circadian biology, psychology, dementia prevention, cognitive optimization, and exercise physiology, *The Genius Life* shows how to integrate healthy choices in all aspects of our daily routines: eating, exercising, sleeping, detoxing, and more to create a healthy foundation for optimal cognitive health and performance. Among Max's groundbreaking findings, you will discover:

- A trick that gives you the equivalent of a “marathon” workout, in 10 minutes
- How to get the benefits of an extra 1-2 servings of veggies daily without eating them
- The hidden chemicals in your home that could be making you fat and sick
- How to boost melatonin levels by up to 58% for deeper sleep without supplements

The book features an achievable prescriptive 21-day plan for *Genius Living* that includes daily workouts, meal plans, and meal prep tips, and accompanied with helpful suggestions for healthy swaps and snacks

In this original, sweeping, and intimate biography, Gleick moves between a comprehensive historical portrait and a dramatic focus on Newton's significant letters and unpublished notebooks to illuminate the real importance of his work.

Draws on diaries, letters, and family interviews to discuss the lesser-known achievements and scientific insights of the Nobel Prize-winning scientist and producer of radium, documenting how she was compromised by the prejudices of a male-dominated society in spite of her accomplishments. 30,000 first printing.

Presents the life and achievements of Albert Einstein, focusing on his rise from struggling patent clerk to eminent scientist and providing descriptions of the famous personalities and political upheavals of the time period in which he lived.

A biography of the flamboyant Nobel Prize-winning scientist describes how Feynman cracked safes, played the bongos, studied the behavior of Jell-O, and conducted experiments in seduction, all in the name of science. Reprint. 125,000 first printing. \$50,000 ad/promo. Tour.

LORD KELVIN. In 1840, a precocious 16-year-old by the name of William Thomson spent his summer vacation studying an extraordinarily sophisticated mathematical controversy. His brilliant analysis inspired lavish praise and made the boy an instant intellectual celebrity. As a young scholar William dazzled a Victorian society enthralled with the seductive authority and powerful beauty of scientific discovery. At a time when no one really understood heat, light, electricity, or

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magnetism, Thomson found key connections between them, laying the groundwork for two of the cornerstones of 19th century science -- the theories of electromagnetism and thermodynamics. Charismatic, confident, and boyishly handsome, Thomson was not a scientist who labored quietly in a lab, plying his trade in monkish isolation. When scores of able tinkerers were flummoxed by their inability to adapt overland telegraphic cables to underwater, intercontinental use, Thomson took to the high seas with new equipment that was to change the face of modern communications. And as the world's navies were transitioning from wooden to iron ships, they looked to Thomson to devise a compass that would hold true even when surrounded by steel. Gaining fame and wealth through his inventive genius, Thomson was elevated to the peerage by Queen Victoria for his many achievements. He was the first scientist ever to be so honored. Indeed, his name survives in the designation of degrees Kelvin, the temperature scale that begins with absolute zero, the point at which atomic motion ceases and there is a complete absence of heat. Sir William Thomson, Lord Kelvin, was Great Britain's unrivaled scientific hero. But as the century drew to a close and Queen Victoria's reign ended, this legendary scientific mind began to weaken. He grudgingly gave way to others with a keener, more modern vision. But the great physicist did not go quietly. With a ready pulpit at his disposal, he publicly proclaimed his doubts over the existence of atoms. He refused to believe that radioactivity involved the transmutation of elements. And believing that the origin of life was a matter beyond the expertise of science and better left to theologians, he vehemently opposed the doctrines of evolution, repeatedly railing against Charles Darwin. Sadly, this pioneer of modern science spent his waning years arguing that the Earth and the Sun could not be more than 100 million years old. And although his early mathematical prowess had transformed our understanding of the forces of nature, he would never truly accept the revolutionary changes he had helped bring about, and it was others who took his ideas to their logical conclusion. In the end Thomson came to stand for all that was old and complacent in the world of 19th century science. Once a scientific force to be reckoned with, a leader to whom others eagerly looked for answers, his peers in the end left him behind -- and then meted out the ultimate punishment for not being able to keep step with them. For while they were content to bury him in Westminster Abbey alongside Isaac Newton, they used his death as an opportunity to write him out of the scientific record, effectively denying him his place in history. Kelvin's name soon faded from the headlines, his seminal ideas forgotten, his crucial contributions overshadowed. Destined to become the definitive biography of one of the most important figures in modern science, Degrees Kelvin unravels the mystery of a life composed of equal parts triumph and tragedy, hubris and humility, yielding a surprising and compelling portrait of a complex and enigmatic man. "The first biography of Richard Garwin, a physicist whose work has had wide-ranging impacts on modern life from well-known technical innovations to progress in nuclear disarmament"--

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Leonardo da Vinci's scientific explorations were virtually unknown during his lifetime, despite their extraordinarily wide range. He studied the flight patterns of birds to create some of the first human flying machines; designed military weapons and defenses; studied optics, hydraulics, and the workings of the human circulatory system; and created designs for rebuilding Milan, employing principles still used by city planners today. Perhaps most importantly, Leonardo pioneered an empirical, systematic approach to the observation of nature—what is known today as the scientific method. Drawing on over 6,000 pages of Leonardo's surviving notebooks, acclaimed scientist and bestselling author Fritjof Capra reveals Leonardo's artistic approach to scientific knowledge and his organic and ecological worldview. In this fascinating portrait of a thinker centuries ahead of his time, Leonardo singularly emerges as the unacknowledged “father of modern science.” From the Trade Paperback edition.

"When ten-year-old genius Emery Jones accidentally sends Chippy 190 million years back in time, he's not sure he can reverse the process—or if he even wants to. Chippy, his crew of bullies, their teacher, and even Emery's dad don't seem to understand Emery's genius. Will Emery Jones risk traveling to the Triassic Period to rescue a bully like Chippy? You never know what can happen when you have the brains and the technology for bending time"—Page 4 of cover.

Popular science writer Kitty Ferguson investigates little-explored byroads in the history of science, from Kepler's nearly disastrous venture into science fiction to a twentieth-century experiment involving cats and rocket fuel. She introduces long-forgotten discoverers and takes us on astounding adventures with the likes of Jesuit astronomer Ferdinand Verbiest, who invented the first automobile and won a bizarre astronomy competition in seventeenth-century China against his former torturer."

Following on the heels of Lisa Cron's breakout first book, *Wired for Story*, this writing guide reveals how to use cognitive storytelling strategies to build a scene-by-scene blueprint for a riveting story. It's every novelist's greatest fear: pouring their blood, sweat, and tears into writing hundreds of pages only to realize that their story has no sense of urgency, no internal logic, and so is a page one rewrite. The prevailing wisdom in the writing community is that there are just two ways around this problem: pantsing (winging it) and plotting (focusing on the external plot). Story coach Lisa Cron has spent her career discovering why these methods don't work and coming up with a powerful alternative, based on the science behind what our brains are wired to crave in every story we read (and it's not what you think). In *Story Genius* Cron takes you, step-by-step, through the creation of a novel from the first glimmer of an idea, to a complete multilayered blueprint—including fully realized scenes—that evolves into a first draft with the authority, richness, and command of a riveting sixth or seventh draft.

The life and work of a scientist who spent his career crossing disciplinary boundaries—from experimental neurology to

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psychiatry to cybernetics to engineering. Warren S. McCulloch (1898–1969) adopted many identities in his scientific life—among them philosopher, poet, neurologist, neurophysiologist, neuropsychiatrist, collaborator, theorist, cybernetician, mentor, engineer. He was, writes Tara Abraham in this account of McCulloch's life and work, “an intellectual showman,” and performed this part throughout his career. While McCulloch claimed a common thread in his work was the problem of mind and its relationship to the brain, there was much more to him than that. In *Rebel Genius*, Abraham uses McCulloch's life as a window on a past scientific age, showing the complex transformations that took place in American brain and mind science in the twentieth century—particularly those surrounding the cybernetics movement. Abraham describes McCulloch's early work in neuropsychiatry, and his emerging identity as a neurophysiologist. She explores his transformative years at the Illinois Neuropsychiatric Institute and his work with Walter Pitts—often seen as the first iteration of “artificial intelligence” but here described as stemming from the new tradition of mathematical treatments of biological problems. Abraham argues that McCulloch's dual identities as neuropsychiatrist and cybernetician are inseparable. He used the authority he gained in traditional disciplinary roles as a basis for posing big questions about the brain and mind as a cybernetician. When McCulloch moved to the Research Laboratory of Electronics at MIT, new practices for studying the brain, grounded in mathematics, philosophy, and theoretical modeling, expanded the relevance and ramifications of his work. McCulloch's transdisciplinary legacies anticipated today's multidisciplinary field of cognitive science.

Celebrated for his brilliantly quirky insights into the physical world, Nobel laureate Richard Feynman also possessed an extraordinary talent for explaining difficult concepts to the general public. Here Feynman provides a classic and definitive introduction to QED (namely, quantum electrodynamics), that part of quantum field theory describing the interactions of light with charged particles. Using everyday language, spatial concepts, visualizations, and his renowned “Feynman diagrams” instead of advanced mathematics, Feynman clearly and humorously communicates both the substance and spirit of QED to the layperson. A. Zee's introduction places Feynman's book and his seminal contribution to QED in historical context and further highlights Feynman's uniquely appealing and illuminating style.

Albert Einstein was a German mathematician and physicist who developed the special and general theories of relativity. In 1921, he won the Nobel Prize for physics for his explanation of the photoelectric effect. In the following decade, he immigrated to the U.S. after being targeted by the German Nazi Party. His work also had a major impact on the development of atomic energy. In his later years, Einstein focused on unified field theory. With his passion for inquiry, Einstein is generally considered the most influential physicist of the 20th century. “Life is like riding a bicycle. To keep your balance you must keep moving.” - Albert Einstein This is the descriptive and concise biography of Albert Einstein. Recounts the life of the scientist whose theories of relativity revolutionized the way we look at space and time.

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Paul Dirac was among the great scientific geniuses of the modern age. One of the discoverers of quantum mechanics, the most revolutionary theory of the past century, his contributions had a unique insight, eloquence, clarity, and mathematical power. His prediction of antimatter was one of the greatest triumphs in the history of physics. One of Einstein's most admired colleagues, Dirac was in 1933 the youngest theoretician ever to win the Nobel Prize in physics. Dirac's personality is legendary. He was an extraordinarily reserved loner, relentlessly literal-minded and appeared to have no empathy with most people. Yet he was a family man and was intensely loyal to his friends. His tastes in the arts ranged from Beethoven to Cher, from Rembrandt to Mickey Mouse. Based on previously undiscovered archives, *The Strangest Man* reveals the many facets of Dirac's brilliantly original mind. A compelling human story, *The Strangest Man* also depicts a spectacularly exciting era in scientific history.

A definitive portrait of the scientific visionary who has influenced fields ranging from quantum physics and national defense to space and religion describes his relationships with leading world thinkers and documents his contributions to nuclear rocket technology, the Nuclear Test Ban Treaty and other world-changing endeavors. 40,000 first printing.

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