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The Last Sorcerer

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Arshile Gorky

Isaac Newton

Faster
Making a New Science

Isaac Newton James Gleick

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BLAINE GWENDOLYN

The Ocean of Truth Cambridge University Press

From one of the best writers on science, a remarkable portrait of Isaac Newton. The man who changed our understanding of the universe, of science, and of faith.

The Last Sorcerer Farrar, Straus and Giroux

Publisher description: Gale E. Christianson has turned his full attention to one man alone, Isaac Newton, who emerges full-blown in these pages not merely as a preeminent astronomer but as the figure history has long known him to be : the greatest scientific thinker of modern times.

About Time: A History of Civilization in Twelve Clocks Isaac Newton

From the bestselling, National Book Award-nominated author of *Genius and Chaos*, a bracing work about the accelerating pace of change in today's world. Most of us suffer some degree of "hurry sickness," a malady that has launched us into the "epoch of the nanosecond," a need-everything-yesterday sphere dominated by cell phones, computers, faxes, and remote controls. Yet for all the hours, minutes, and even seconds being saved, we're still filling our days to the point that we have no time for such basic human activities as eating, sex, and relating to our families. Written with fresh insight and thorough research, *Faster* is a wise and witty look at a harried world not likely to slow down anytime soon.

Sir Isaac Newton: One of the Greatest Minds of All-Time. the Entire Life Story Vintage

A captivating, surprising history of timekeeping and how it has shaped our world. For thousands of years, people of all cultures have made and used clocks, from the city sundials of ancient Rome to the medieval water clocks of imperial China, hourglasses fomenting revolution in the Middle Ages, the Stock Exchange clock of Amsterdam in 1611, Enlightenment observatories in India, and the high-precision clocks circling the Earth on a fleet of GPS satellites that have been launched since 1978. Clocks have helped us navigate the world and build empires, and have even

taken us to the brink of destruction. Elites have used them to wield power, make money, govern citizens, and control lives—and sometimes the people have used them to fight back. Through the stories of twelve clocks, *About Time* brings pivotal moments from the past vividly to life. Historian and lifelong clock enthusiast David Rooney takes us from the unveiling of al-Jazari's castle clock in 1206, in present-day Turkey; to the Cape of Good Hope observatory at the southern tip of Africa, where nineteenth-century British government astronomers moved the gears of empire with a time ball and a gun; to the burial of a plutonium clock now sealed beneath a public park in Osaka, where it will keep time for 5,000 years. Rooney shows, through these artifacts, how time has been imagined, politicized, and weaponized over the centuries—and how it might bring peace. Ultimately, he writes, the technical history of horology is only the start of the story. A history of clocks is a history of civilization.

Great Physicists Oxford University Press

When Isaac Newton died in 1727 without a will, he left behind a wealth of papers that, when examined, gave his followers and his family a deep sense of unease. Some of what they contained was wildly heretical and alchemically obsessed, hinting at a Newton altogether stranger and less palatable than the one enshrined in Westminster Abbey as the paragon of English rationality. These manuscripts had the potential to undermine not merely Newton's reputation, but that of the scientific method he embodied. They were immediately suppressed as "unfit to be printed," and, aside from brief, troubling glimpses spread across centuries, the papers would remain hidden from sight for more than seven generations. In *The Newton Papers*, Sarah Dry illuminates the tangled history of these private writings over the course of nearly three hundred years, from the long span of Newton's own life into the present day. The writings, on subjects ranging from secret alchemical formulas to impassioned rejections of the Holy Trinity, would eventually come to light as they moved through the hands of relatives, collectors, and scholars. The story of their disappearance, dispersal, and rediscovery is populated by a diverse cast of characters who pursued and possessed the papers, from economist John Maynard Keynes to controversial

Jewish Biblical scholar Abraham Yahuda. Dry's captivating narrative moves between these varied personalities, depicting how, as they chased the image of Newton through the thickets of his various obsessions, these men became obsessed themselves with the allure of defining the "true" Newton. Dry skillfully accounts for the ways with which Newton's pursuers have approached his papers over centuries. Ultimately, *The Newton Papers* shows how Newton has been made and re-made throughout history by those seeking to reconcile the cosmic contradictions of an extraordinarily complex man.

Remarkable Lives Open Road Media

In *Time Reborn*, Lee Smolin, one of our foremost physicists and thinkers offers a radical new view of the nature of time and the cosmos. Nothing seems more real than time passing. We experience life itself as a succession of moments. Yet throughout history, the idea that time is an illusion has been a religious and philosophical commonplace. We identify certain truths as 'eternal' constants, from moral principles to the laws of mathematics and nature: these are laws that exist not inside time, but outside it. From Newton and Einstein to today's string theorists and quantum physicists, the widest consensus is that the universe is governed by absolute, timeless laws. In *Time Reborn*, Lee Smolin argues that this denial of time is holding back both physics, and our understanding of the universe. We need a major revolution in scientific thought: one that embraces the reality of time and places it at the centre of our thinking. $E=mc^2$ may equal mc^2 squared now, but that wasn't always the case. Similarly, as our understanding of the universe develops, Newton's fundamental laws might not remain so fundamental. Time, Smolin concludes, is not an illusion: it is the best clue we have to fundamental reality. *Time Reborn* explains how the true nature of time impacts on us, our world, and our universe. 'The strongest dose of clarity in written form to have come along in decades. The implications go far beyond physics, to economics, politics, and personal philosophy. *Time Reborn* places reality above theory in stronger and clearer terms than ever before, and the result is a path to better theory and potentially to a better society as well. Will no doubt be remembered as one of the essential books of the 21st

century' Jaron Lanier [Praise for Lee Smolin's *The Trouble With Physics*]: 'The best book about contemporary science written for the layman that I have ever read . . . Read this book. Twice' Sunday Times 'Unusually broad and deep . . . his critical judgments are exceptionally penetrating' Roger Penrose 'Brave, uniquely well-informed . . . does a tremendous job' Mail on Sunday Lee Smolin is a theoretical physicist who has made important contributions to the search for quantum gravity. Born in New York City, he was educated at Hampshire College and Harvard University. Since 2001 he is a founding faculty member at Perimeter Institute for Theoretical Physics. His three earlier books explore philosophical issues raised by contemporary physics and cosmology. They are *Life of the Cosmos* (1997), *Three Roads to Quantum Gravity* (2001) and *The Trouble with Physics* (2006). He lives in Toronto.

The Newton Papers Cambridge University Press

Download for FREE on Kindle Unlimited + Free BONUS Inside! Read On Your Computer, MAC, Smartphone, Kindle Reader, iPad, or Tablet. Isaac Newton
Newton and the Counterfeiter Vintage

Explains the meaning and application of chaos--the study of patterns emerging from seemingly random phenomena--and introduces the scientists responsible for major discoveries in this field

Isaac Newton Oxford University Press

Stephen Hawking was widely recognized as the world's best physicist and even the most brilliant man alive—but what if his true talent was self-promotion? When Stephen Hawking died, he was widely recognized as the world's best physicist, and even its smartest person. He was neither. In *Hawking*, science journalist Charles Seife explores how Stephen Hawking came to be thought of as humanity's greatest genius. Hawking spent his career grappling with deep questions in physics, but his renown didn't rest on his science. He was a master of self-promotion, hosting parties for time travelers, declaring victory over problems he had not solved, and wooing billionaires. In a wheelchair and physically dependent on a cadre of devotees, Hawking still managed to captivate the people around him—and use them for his own purposes. A brilliant exposé and powerful biography, *Hawking* uncovers the authentic Hawking buried underneath the fake. It is the story of a man whose brilliance in

physics was matched by his genius for building his own myth. *The True and Surprising Story of the Life of Sir Isaac Newton* Pitkin 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 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.

From the Crisis in Physics to the Future of the Universe Penguin UK

Sir Isaac Newton (1642-1727), mathematician and physicist, is one of the foremost scientific intellects of all time. This fully illustrated, accessible guide to the life and work of Isaac Newton is the perfect introduction to his groundbreaking work on gravity, motion, optics, light, colour and calculus. It also considers his lesser known research into chemistry, theology and alchemy while assessing his continuing legacy. Organised chronologically, this book covers his childhood in rural Lincolnshire, school days in Grantham and undergraduate life at Trinity College, Cambridge. All of his major discoveries, breakthroughs and publications are lucidly described. Entries include: the story of the falling apple, Gravity and the Principia, Newton's laws of motion, Optics, Alchemy and Divinity, as well as his time as Warden of the Royal Mint in London. This is the essential guide to the life, work and legacy of one of the greatest geniuses of all time.

His Contribution to the Quest for Longitude Penguin Group USA

From the Author of *Frida*, the Moving and Heroic Story of One of the Central Painters of the Twentieth Century Born in Turkey around 1900, Vosdanik Adoian escaped the massacres of Armenians in 1915 only to watch his mother die of starvation and

his family scatter in their flight from the Turks. Arriving in America in 1920, Adoian invented the pseudonym Arshile Gorky—and obliterated his past. Claiming to be a distant cousin of the novelist Maxim Gorky, he found work as an art teacher and undertook a program of rigorous study, schooling himself in the modern painters he most admired, especially Cézanne and Picasso. By the early forties, Gorky had entered his most fruitful period and developed the style that is seen as the link between European modernism and American abstract expressionism. His masterpieces influenced the great generation of American painters in the late forties, even as Gorky faced a series of personal catastrophes: a studio fire, cancer, and a car accident that temporarily paralyzed his painting arm. Further demoralized by the dissolution of his seven-year marriage, Gorky hanged himself in 1948. A sympathetic, sensitive account of artistic and personal triumph as well as tragedy, Hayden Herrera's biography is the first to interpret Gorky's work in depth. The result of more than three decades of scholarship—and a lifelong engagement with Gorky's paintings—Arshile Gorky traces the progress from apprentice to master of the man André Breton called “the most important painter in American history.”

The Prime Number Conspiracy MIT Press

“Bryson is as amusing as ever....As a celebration of 350 years of modern science, [Seeing Further] it is a worthy tribute.” —The Economist In *Seeing Further*, New York Times bestseller Bill Bryson takes readers on a guided tour through the great discoveries, feuds, and personalities of modern science. Already a major bestseller in the UK, *Seeing Further* tells the fascinating story of science and the Royal Society with Bill Bryson's trademark wit and intelligence, and contributions from a host of well known scientists and science fiction writers, including Richard Dawkins, Neal Stephenson, James Gleick, and Margaret Atwood. It is a delightful literary treat from the acclaimed author who previously explored the current state of scientific knowledge in his phenomenally popular book, *A Short History of Nearly Everything*.

A Biography of Isaac Newton Hachette UK

After Sir Isaac Newton revealed his discovery that white light was compounded of more basic colored rays, he was hailed as a genius and became an instant international celebrity. An interdisciplinary enthusiast and intellectual giant in a number of disciplines, Newton published revolutionary, field-defining works

that reached across the scientific spectrum, including the *Principia Mathematica* and *Opticks*. His renown opened doors for him throughout his career, ushering him into prestigious positions at Cambridge, the Royal Mint, and the Royal Society. And yet, alongside his public success, Newton harbored religious beliefs that set him at odds with law and society, and, if revealed, threatened not just his livelihood but his life. Religion and faith dominated much of Newton's life and work. His papers, never made available to the public, were filled with biblical speculation and timelines along with passages that excoriated the early Church fathers. Indeed, his radical theological leanings rendered him a heretic, according to the doctrines of the Anglican Church. Newton believed that the central concept of the Trinity was a diabolical fraud and loathed the idolatry, cruelty, and persecution that had come to define religion in his time. Instead, he proposed a "simple Christianity"--a faith that would center on a few core beliefs and celebrate diversity in religious thinking and practice. An utterly original but obsessively private religious thinker, Newton composed several of the most daring works of any writer of the early modern period, works which he and his inheritors suppressed and which have been largely inaccessible for centuries. In *Priest of Nature*, historian Rob Iliffe introduces readers to Newton the religious animal, deepening our understanding of the relationship between faith and science at a formative moment in history and thought. Previous scholars and biographers have generally underestimated the range and complexity of Newton's religious writings, but Iliffe shows how wide-ranging his observations and interests were, spanning the entirety of Christian history from Creation to the Apocalypse. Iliffe's book allows readers to fully engage in the theological discussion that dominated Newton's age. A vibrant biography of one of history's towering scientific figures, *Priest of Nature* is the definitive work on the spiritual views of the man who fundamentally changed how we look at the universe.

Never at Rest Faber & Faber

In this engaging piece of detective work, Nicholas Kollerstrom has combined historical research with computer analysis to investigate long-unanswered questions about Newton's lunar

theory of 1702 (whose complete text is included). The lunar theory turns out to have been the basis for numerous eighteenth century tables, and was used in China well into the twentieth century. It was taken (heavily disguised) into the *Principia* of 1713, with one important correction. In this form, it was remarkably accurate, about as good as the observations on which it was based, and was used by Halley (in a procedure explained here for the first time) to compute lunar positions with an accuracy of under one arcminute--good enough to have won the longitude prize.

Seeing Further Little, Brown

Isaac Newton was indisputably one of the greatest scientists in history. His achievements in mathematics and physics marked the culmination of the movement that brought modern science into being. Richard Westfall's biography captures in engaging detail both his private life and scientific career, presenting a complex picture of Newton the man, and as scientist, philosopher, theologian, alchemist, public figure, President of the Royal Society, and Warden of the Royal Mint. An abridged version of his magisterial study *Never at Rest* (Cambridge, 1980), this concise biography makes Westfall's highly acclaimed portrait of Newton newly accessible to general readers.

The Triumph and Tragedy of J. Robert Oppenheimer

Createspace Independent Publishing Platform

Here is a lively history of modern physics, as seen through the lives of thirty men and women from the pantheon of physics. William H. Cropper vividly portrays the life and accomplishments of such giants as Galileo and Isaac Newton, Marie Curie and Ernest Rutherford, Albert Einstein and Niels Bohr, right up to contemporary figures such as Richard Feynman, Murray Gell-Mann, and Stephen Hawking. We meet scientists--all geniuses--who could be gregarious, aloof, unpretentious, friendly, dogged, imperious, generous to colleagues or contentious rivals. As Cropper captures their personalities, he also offers vivid portraits of their great moments of discovery, their bitter feuds, their relations with family and friends, their religious beliefs and education. In addition, Cropper has grouped these biographies by discipline--mechanics, thermodynamics, particle physics, and

others--each section beginning with a historical overview. Thus in the section on quantum mechanics, readers can see how the work of Max Planck influenced Niels Bohr, and how Bohr in turn influenced Werner Heisenberg. Our understanding of the physical world has increased dramatically in the last four centuries. With *Great Physicists*, readers can retrace the footsteps of the men and women who led the way.

The Information Rowman & Littlefield

This novel of Ben Franklin, Isaac Newton, and a demonic Louis XIV is "eminently worthwhile reading for both fantasy and alternate-history lovers" (Booklist). In 1681, in an England somewhat like our England . . . the great alchemist Sir Isaac Newton makes the remarkable discovery of a substance he calls philosopher's mercury, with which one can manipulate the four essential elements of the universe: earth, water, air, and fire. In the opulent court of Britain's greatest enemy, the ancient King Louis XIV, his life alchemically and indefinitely prolonged, employs treacherous means to obtain the prize that will grant him dominion over the entire continent. Meanwhile, his brilliant and beautiful mistress, Adrienne de Mornay de Montchevreuil, secretly pursues a mathematical method to prevent his takeover. And in another corner of the world, the young printer's apprentice and aspiring alchemist Ben Franklin is plagued by a demon and flees to England seeking the aid of his hero: Newton. But Franklin will discover that Newton has demons of his own . . . A wondrously dark and richly imagined alternate history, Greg Keyes's *Newton's Cannon* is the first book in his extraordinary *Age of Unreason* series—a magnificent journey to a past that never was in a world where magic is a science and the greatest minds must conspire to prevent an end to all things.

Hawking Penguin

Presents a biography of Isaac Newton, a celebrated genius of his time who invented calculus and gave a scientific explanation of gravity, but also tried to destroy other scientists who questioned his work.

American Prometheus Pantheon

With 102 spectacular full-color photos, this fascinating "field guide" explores the world's natural disorder.