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The Great Physicists from Galileo to Einstein - George Gamow 2012-07-12

The distinguished scientist and author traces the development of physics from the age of the ancient Greeks to modern particle physics, offering fascinating biographical and historical data. 136 illustrations.

The New World of Mr Tompkins - George Gamow 1999

An inspirational introduction to the physics of the twenty-first century.

The Creation of the Universe - George Gamow 2012-08-02

Lively and authoritative, this survey by a renowned physicist explains the formation of the galaxies and defines the concept of an ever-expanding universe in simple terms. 1961 edition. 40 figures.

Introduction to Probability - Joseph K. Blitzstein 2014-07-24

Developed from celebrated Harvard statistics lectures, *Introduction to Probability* provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC).

Additional

Thirty Years that Shook Physics - George Gamow 2012-05-11

Lucid, accessible introduction to the influential theory of energy and matter features careful explanations of Dirac's anti-particles, Bohr's model of the atom, and much more. Numerous drawings. 1966 edition.

One, two, three ... infinity - Jurij Gamov 1959

Mr Tompkins Learns the Facts of Life

- George Gamow 2011-06-09

One of the reincarnations of the Mr Tompkins series since the death of the author in 1968, in which Mr Tompkins visits a biologist.

One Two Three ... Infinity - George Gamow (Physicist, Ukraine/United States) 1959

Do the Work! - Steven Pressfield
2014-10-28

ONE TWO THREE---INFINITY - GEORGE GAMOW 1947

Speculative Everything - Anthony Dunne 2013-12-06

How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making

technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want). *Speculative Everything* offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own

design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

The Complete Idiot's Guide to the Sun
- Jay M. Pasachoff 2003

No Marketing Blurb

Book of Proof - Richard H. Hammack
2016-01-01

This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

The Adventures of Mr. Tompkins - Igor Gamow 2009-12-23

Mr. Tompkins, the inquisitive bank clerk created by esteemed physicist

George Gamow in 1937, returns in a new "graphic textbook" companion to the popular new video series! Join Tompkins as he learns about gravity from Albert Einstein, explores the atom with Ernest Rutherford and gets a radioactive guided tour by Marie Curie!

Brown Girl Dreaming - Jacqueline Woodson 2016-10-11

Jacqueline Woodson's National Book Award and Newbery Honor winner is a powerful memoir that tells the moving story of her childhood in mesmerizing verse. A President Obama "O" Book Club pick Raised in South Carolina and New York, Woodson always felt halfway home in each place. In vivid poems, she shares what it was like to grow up as an African American in the 1960s and 1970s, living with the remnants of Jim Crow and her growing

awareness of the Civil Rights movement. Touching and powerful, each poem is both accessible and emotionally charged, each line a glimpse into a child's soul as she searches for her place in the world. Woodson's eloquent poetry also reflects the joy of finding her voice through writing stories, despite the fact that she struggled with reading as a child. Her love of stories inspired her and stayed with her, creating the first sparks of the gifted writer she was to become. Includes 7 additional poems, including "Brown Girl Dreaming." Praise for Jacqueline Woodson: "Ms. Woodson writes with a sure understanding of the thoughts of young people, offering a poetic, eloquent narrative that is not simply a story . . . but a mature

exploration of grown-up issues and self-discovery.”—The New York Times Book Review

An Imaginary Tale - Paul J. Nahin
2010-02-22

Today complex numbers have such widespread practical use--from electrical engineering to aeronautics--that few people would expect the story behind their derivation to be filled with adventure and enigma. In *An Imaginary Tale*, Paul Nahin tells the 2000-year-old history of one of mathematics' most elusive numbers, the square root of minus one, also known as i . He recreates the baffling mathematical problems that conjured it up, and the colorful characters who tried to solve them. In 1878, when two brothers stole a mathematical papyrus from the ancient Egyptian burial site

in the Valley of Kings, they led scholars to the earliest known occurrence of the square root of a negative number. The papyrus offered a specific numerical example of how to calculate the volume of a truncated square pyramid, which implied the need for i . In the first century, the mathematician-engineer Heron of Alexandria encountered i in a separate project, but fudged the arithmetic; medieval mathematicians stumbled upon the concept while grappling with the meaning of negative numbers, but dismissed their square roots as nonsense. By the time of Descartes, a theoretical use for these elusive square roots--now called "imaginary numbers"--was suspected, but efforts to solve them led to intense, bitter debates. The notorious i finally won acceptance

and was put to use in complex analysis and theoretical physics in Napoleonic times. Addressing readers with both a general and scholarly interest in mathematics, Nahin weaves into this narrative entertaining historical facts and mathematical discussions, including the application of complex numbers and functions to important problems, such as Kepler's laws of planetary motion and ac electrical circuits. This book can be read as an engaging history, almost a biography, of one of the most evasive and pervasive "numbers" in all of mathematics. Some images inside the book are unavailable due to digital copyright restrictions.

Playing with Infinity - Rózsa Péter
2012-04-04

Popular account ranges from counting to mathematical logic and covers many

concepts related to infinity: graphic representation of functions; pairings, other combinations; prime numbers; logarithms, circular functions; more. 216 illustrations.

Mr Tompkins in Paperback - George Gamow 1993-03-26

Mr Tomkins in paperback comprising: Mr Tompkins in wonderland and Mr Tompkins explores the atom

James Clerk Maxwell - C. W. Francis Everitt 1975

Physics - George Gamow 1976

Infinity and the Mind - Rudy Rucker
2019-07-23

A dynamic exploration of infinity In Infinity and the Mind, Rudy Rucker leads an excursion to that stretch of the universe he calls the "Mindscape," where he explores

infinity in all its forms: potential and actual, mathematical and physical, theological and mundane. Using cartoons, puzzles, and quotations to enliven his text, Rucker acquaints us with staggeringly advanced levels of infinity, delves into the depths beneath daily awareness, and explains Kurt Gödel's belief in the possibility of robot consciousness. In the realm of infinity, mathematics, science, and logic merge with the fantastic. By closely examining the paradoxes that arise, we gain profound insights into the human mind, its powers, and its limitations. This Princeton Science Library edition includes a new preface by the author.

The Birth and Death of the Sun -

George Gamow 2005-01-01

In this fascinating book, a renowned

physicist outlines the discoveries and theories that illuminate the evolution of our world. One of the founders of Big Bang theory, George Gamow employs language that's both scientifically accurate and easy to understand as he traces the development of atomic theory. 1952 edition. 78 illustrations.

The Beginning of Infinity - David Deutsch 2011-03-31

A bold and all-embracing exploration of the nature and progress of knowledge from one of today's great thinkers. Throughout history, mankind has struggled to understand life's mysteries, from the mundane to the seemingly miraculous. In this important new book, David Deutsch, an award-winning pioneer in the field of quantum computation, argues that explanations have a fundamental place

in the universe. They have unlimited scope and power to cause change, and the quest to improve them is the basic regulating principle not only of science but of all successful human endeavor. This stream of ever improving explanations has infinite reach, according to Deutsch: we are subject only to the laws of physics, and they impose no upper boundary to what we can eventually understand, control, and achieve. In his previous book, *The Fabric of Reality*, Deutsch describe the four deepest strands of existing knowledge-the theories of evolution, quantum physics, knowledge, and computation-arguing jointly they reveal a unified fabric of reality. In this new book, he applies that worldview to a wide range of issues and unsolved problems, from creativity and free

will to the origin and future of the human species. Filled with startling new conclusions about human choice, optimism, scientific explanation, and the evolution of culture, *The Beginning of Infinity* is a groundbreaking book that will become a classic of its kind.

[Get Along with Anyone, Anytime, Anywhere!](#) - Arnold Sanow 2013-01-01
A renowned business and communication expert demonstrates 8 key ways to create enduring connections with friends, customers, co-workers . . . and even kids! Whether you work in marketing and sales or in customer service . . . are a CEO or a stay-at-home mom, the ability to effectively connect with the needs of others dramatically affects your productivity, effectiveness, and motivation. This is your one-stop

guidebook for all the information you need to communicate effectively and build lasting personal and professional relationships today, next week, and next year. Relationships are critical to success and happiness. This book, written by one of only 525 Certified Speaking Professionals in the world, will give you skills you need to turn your encounters with contacts, acquaintances, and even family members, into enduring connections. "A useful reminder of what we all need to make our lives and our businesses work better: communication, openness and sincerity. It's so easy to lose touch with these concepts in a busy, stressful day, but Sanow and Strauss make a compelling argument that it's worth it to make the effort." -The

Washington Post
One Two Three . . . Infinity - George Gamow 1971-05

Girls Garage - Emily Pilloton
2020-06-02

Girls Garage is the only book you'll ever need for a lifetime of tools and building. Not sure which screws to buy? Need to fix a running toilet? With Girls Garage, you'll have the expertise to tackle these problems with your own hands. Or maybe you want to get creative and build something totally new. A birdhouse? A bookshelf? Girls Garage has you covered. Packed with illustrations that will build confidence for your next hardware store run, practical advice on everything from quick fixes to safety tips, and inspiring stories from real-world builder girls and

women, this eye-catching volume makes the technical accessible. This is the guide every girl needs to take her life into her own hands. Girls, get in touch with your inner badass, and get building • Informative, inspiring, and designed for everyday use, this is the ultimate book of book of building and woodcraft for girls. • A true confidence builder for girls interested in STEM, woodworking, and home improvement. • Along with her design agency and Girl's Garage, Emily Pilloton has been featured on television shows and the documentary film If You Build It. Girls Garage will be both a trusted household resource and a wellspring of inspiration and encouragement in the vein of Women in Science and Headstrong: 52 Women Who Changed Science and the World. • Nonfiction

books for girls age 14 and up • Woodcraft, home repair, kids building projects • Inspiring Kids DIY for teens Emily Pilloton is a designer, builder, educator, and founder of the nonprofit design agency Project H Design and Girls Garage. Her ideas have made their way to the TED stage, the Colbert Report, and the full-length documentary If You Build It. She is currently a lecturer in the College of Environmental Design at the University of California, Berkeley. She lives in the San Francisco Bay Area.

One, Two, Three ... Infinity - George Gamow (Physiker, Ukraine/USA) 1958

A Brief History of Infinity - Brian Clegg 2013-02-07

'Space is big. Really big. You just won't believe how vastly, hugely,

mind-bogglingly big it is. I mean, you may think it's a long way down the street to the chemist, but that's just peanuts to space.' Douglas Adams, Hitch-hiker's Guide to the Galaxy We human beings have trouble with infinity - yet infinity is a surprisingly human subject. Philosophers and mathematicians have gone mad contemplating its nature and complexity - yet it is a concept routinely used by schoolchildren. Exploring the infinite is a journey into paradox. Here is a quantity that turns arithmetic on its head, making it feasible that $1 = 0$. Here is a concept that enables us to cram as many extra guests as we like into an already full hotel. Most bizarrely of all, it is quite easy to show that there must be something bigger than infinity - when it surely should be

the biggest thing that could possibly be. Brian Clegg takes us on a fascinating tour of that borderland between the extremely large and the ultimate that takes us from Archimedes, counting the grains of sand that would fill the universe, to the latest theories on the physical reality of the infinite. Full of unexpected delights, whether St Augustine contemplating the nature of creation, Newton and Leibniz battling over ownership of calculus, or Cantor struggling to publicise his vision of the transfinite, infinity's fascination is in the way it brings together the everyday and the extraordinary, prosaic daily life and the esoteric. Whether your interest in infinity is mathematical, philosophical, spiritual or just plain curious, this accessible book

offers a stimulating and entertaining read.

A Number for your Thoughts - M. E. Lines 2020-08-18

Why do we count the way we do? What is a prime number or a friendly, perfect, or weird one? How many are there and who has found the largest yet known? What is the Baffling Law of Benford and can you really believe it? Do most numbers you meet in every day life really begin with a 1, 2, or 3? What is so special about 6174? Can cubes, as well as squares, be magic? What secrets lie hidden in decimals? How do we count the infinite, and is one infinity really larger than another? These and many other fascinating questions about the familiar 1, 2, and 3 are collected in this adventure into the world of numbers. Both entertaining and

informative, *A Number for Your Thoughts: Facts and Speculations about Numbers from Euclid to the Latest Computers* contains a collection of the most interesting facts and speculations about numbers from the time of Euclid to the most recent computer research. Requiring little or no prior knowledge of mathematics, the book takes the reader from the origins of counting to number problems that have baffled the world's greatest experts for centuries, and from the simplest notions of elementary number properties all the way to counting the infinite.

Mr. Tompkins Inside Himself - Martynas Yčas 1967

One Two Three . . . Infinity - George Gamow 2012-04-26

Over 120 delightful pen-and-ink illustrations by the author add another dimension of good-natured charm to these wide-ranging explorations. A mind-expanding volume for the layman and the science-minded.

Gravity - George Gamow 2013-04-09

A distinguished physicist and teacher takes a reader-friendly look at three scientists whose work unlocked many of the mysteries behind the laws of physics: Galileo, Newton, and Einstein.

The First Three Minutes - Steven Weinberg 2022-04-26

A Nobel Prize-winning physicist explains what happened at the very beginning of the universe, and how we know, in this popular science classic. Our universe has been growing for nearly 14 billion years.

But almost everything about it, from the elements that forged stars, planets, and lifeforms, to the fundamental forces of physics, can be traced back to what happened in just the first three minutes of its existence. In this book, Nobel Laureate Steven Weinberg describes in wonderful detail what happened in these first three minutes. It is an exhilarating journey that begins with the Planck Epoch - the earliest period of time in the history of the universe - and goes through Einstein's Theory of Relativity, the Hubble Red Shift, and the detection of the Cosmic Microwave Background. These incredible discoveries all form the foundation for what we now understand as the "standard model" of the origin of the universe. The First Three Minutes examines not only what

this model looks like, but also tells the exciting story of the bold thinkers who put it together. Clearly and accessibly written, *The First Three Minutes* is a modern-day classic, an unsurpassed explanation of where it is that everything really comes from.

The New World of Mr Tompkins - George Gamow 1999-09-16

Mr. Tompkins is back! The mild-mannered bank clerk with the short attention span and vivid imagination has inspired, charmed, and informed young and old alike since the publication of the hugely successful *Mr Tompkins* in Paperback (by George Gamow) in 1965. Now, this highly affable character returns to embark on a set of adventures that explore the extreme edges of the universe-- the smallest, the largest, the

fastest, and the farthest. Just by following the experiences and dreams of Mr. Tompkins, readers discover and come to know the merry dance of cosmic mysteries, including: Einstein's theory of relativity, bizarre effects near light-speed, the birth and death of the universe, black holes, quarks, space warps and antimatter, the fuzzy world of the quantum, and that ultimate cosmic mystery--love. The story of Mr. Tompkins' journey to the frontiers of modern physics will delight and inform all readers. Russell Stannard is a best-selling popular science writer and the author of the critically acclaimed *Uncle Albert* series of science books for children. *Levels of Infinity* - Hermann Weyl 2013-09-26
Original anthology features less-

technical essays discussing logic, topology, abstract algebra, relativity theory, and the works of David Hilbert. Most have been long unavailable or previously unpublished in book form. 2012 edition.

One Two Three -- Infinity - George Gamow 1947

One Two Three ... Infinity. Facts & Speculations of Science, Etc. [With Plates.]. - George Gamow 1955

The Road to Reality - Roger Penrose
2021-06-09

****WINNER OF THE 2020 NOBEL PRIZE IN PHYSICS**** The Road to Reality is the most important and ambitious work of science for a generation. It provides nothing less than a comprehensive account of the physical universe and the essentials of its underlying

mathematical theory. It assumes no particular specialist knowledge on the part of the reader, so that, for example, the early chapters give us the vital mathematical background to the physical theories explored later in the book. Roger Penrose's purpose is to describe as clearly as possible our present understanding of the universe and to convey a feeling for its deep beauty and philosophical implications, as well as its intricate logical interconnections. The Road to Reality is rarely less than challenging, but the book is leavened by vivid descriptive passages, as well as hundreds of hand-drawn diagrams. In a single work of colossal scope one of the world's greatest scientists has given us a complete and unrivalled guide to the glories of the universe that we all

inhabit. 'Roger Penrose is the most important physicist to work in relativity theory except for Einstein. He is one of the very few people I've met in my life who, without reservation, I call a genius'

Lee Smolin

Mathematics and the Imagination -
Edward Kasner 2013-04-22

With wit and clarity, the authors progress from simple arithmetic to calculus and non-Euclidean geometry. Their subjects: geometry, plane and fancy; puzzles that made mathematical history; tantalizing paradoxes; more. Includes 169 figures.

Mr. Tompkins Explores the Atom -
George Gamow 1951