Relativity Simply Explained Martin Gardner

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Lightning - Martin A. Uman 2012-05-24
Revised, updated edition of classic work on the physics of lightning covers phenomena, terminology, measurement, photography, spectroscopy, thunder, and more, including reviews of recent research. 140 figures and tables.

A Short Account of the History of Mathematics - W. W. Rouse Ball 2012-04-27
This standard text treats hundreds of figures and schools instrumental in the development of mathematics, from the Phoenicians to such 19th-century giants as Grassman, Galois, and

Riemann.

Practical Statistics Simply Explained - Dr. Russell A. Langley 2013-04-26

Primer on how to draw valid conclusions from numerical data using logic and the philosophy of statistics rather than complex formulae. Discusses averages and scatter, investigation design, more. Problems, solutions.

A Guide to Feynman Diagrams in the Many-Body Problem - Richard D. Mattuck 2012-08-21

Superb introduction for nonspecialists covers Feynman diagrams, quasi particles, Fermi systems at finite temperature, superconductivity, vacuum amplitude, Dyson's equation, ladder approximation, and more. "A great delight." — Physics Today. 1974 edition.

Introductory Graph Theory - Gary Chartrand 2012-04-30

Clear, lively style covers all basics of theory and application, including mathematical models, elementary graph theory, transportation problems, connection problems, party problems, diagraphs and mathematical models, games and puzzles, more.

Understanding Relativity - Leo Sartori 1996-05-30

Nonspecialists with no prior knowledge of physics and only reasonable proficiency with algebra can now understand Einstein's special theory of relativity. Effectively diagrammed and with an emphasis on logical structure, Leo Sartori's rigorous but simple presentation will guide interested readers through concepts of relative time and relative space. Sartori covers general relativity and cosmology, but focuses on Einstein's theory. He tracks its history and implications. He explores illuminating paradoxes, including the famous twin paradox, the "pole-in-the-barn" paradox, and the Loedel diagram, which is an accessible, graphic approach to relativity. Students of the history and philosophy of science will welcome this concise introduction to the central concept of modern physics.

Optical Processes in Semiconductors - Jacques I. Pankove 2012-12-19
Comprehensive text and reference covers all phenomena involving light in semiconductors, emphasizing modern applications in semiconductor lasers, electroluminescence, photodetectors, photoconductors, photoemitters, polarization effects, absorption spectroscopy, more. Numerous problems. 339 illustrations.

Martin Gardner's Mathematical Games - Martin Gardner 2005
The entire collection of Martin Gardner's Scientific American columns are on one searchable CD! Martin Gardner's ``Mathematical Games'' column ran in Scientific American from 1956 to 1986. In these columns, Gardner introduced hundreds of thousands of readers to the delights of mathematics and of puzzles and problem solving. His column broke such stories as Rivest, Shamir and Adelman on public-key cryptography, Mandelbrot on fractals, Conway on Life, and Penrose on tilings. He enlivened classic geometry and number theory and introduced readers to new areas such as combinatorics and graph theory. The CD contains the following articles: (1) Hexaflexagons and Other Mathematical Diversions; (2) The Second Scientific American Book of Mathematical Puzzles and Diversions; (3) New Mathematical Diversions; (4) The Unexpected Hanging and Other Mathematical Diversions; (5) Martin Gardner's 6th Book of Mathematical Diversions from Scientific American; (6) Mathematical Carnival; (7) Mathematical Magic Show; (8) Mathematical Circus; (9) The Magic Numbers of Dr. Matrix; (10) Wheels, Life, and Other Mathematical Amusements; (11) Knotted Doughnuts and Other Mathematical Entertainers; (12) Time Travel and Other Mathematical Bewilderments; (13) Penrose Tiles to Trapdoor Ciphers; (14) Fractal Music, Hypercards, and

more Mathematical Recreations from Scientific American and (15) The Last Recreations: Hydras, Eggs, and Other Mathematical Mystifications. A profile and interview with Martin Gardner is included in this collection.

The Whys of a Philosophical Scrivener - Martin Gardner 1999-08-21

The Whys of a Philosophical Scrivener showcases Martin Gardner as the consummate philosopher, thinker, and great mathematician that he is. Exploring issues that range from faith to prayer to evil to immortality, and far beyond, Garnder challenges the discerning reader with fundamental questions of classical philosophy and life's greater meanings. Recalling such philosophers was Wittgenstein and Arendt, The Whys of Philosophical Scrivener embodies Martin Garner's unceasing interest and joy in the impenetrable mysteries of life.

Fads and Fallacies in the Name of Science - Martin Gardner 2012-05-04

Fair, witty appraisal of cranks, quacks, and quackeries of science and pseudoscience: hollow earth, Velikovsky, orgone energy, Dianetics, flying saucers, Bridey Murphy, food and medical fads, and much more.

Mathematics for the Nonmathematician - Morris Kline 2013-04-15

Erudite and entertaining overview follows development of mathematics from ancient Greeks to present. Topics include logic and mathematics, the fundamental concept, differential calculus, probability theory, much more. Exercises and problems.

Echo of the Big Bang - Michael D. Lemonick 2003

Describes how the scientific discoveries of the Microwave Anisotropy Probe (MAP) satellite have transformed the modern science of cosmology, describing its revelations in terms of the origins and history of the universe, the nature of dark matter, the expansion of the universe, and other key topics. (Science & Mathematics)

Theoretical Aerodynamics - Louis Melville Milne-Thomson 1973-01-01
An excellent introduction to the study of inviscid airflow using potential theory, this book is a longtime university text and reference and a classic in its field. This edition is a complete reprint of the revised 1966 edition, which brings the subject up to date. Includes a wealth of problems, illustrations, and cross-references.
Judaism, Physics and God - David W. Nelson 2006
This provocative fusion of religion and science offers new ways to express spiritual beliefs, harmonizes Judaism with modern scientific thinking, and introduces a new expression of our relationship with God in the exciting context of contemporary science.
Mathematics, Magic and Mystery - Martin Gardner 2014-12-02
Famed puzzle expert explains math behind a multitude of mystifying tricks: card tricks, stage "mind reading," coin and match tricks, counting out games, geometric dissections, etc. More than 400 tricks. 135 illustrations.
Great Experiments in Physics - Morris H. Shamos 2012-10-16
Starting with Galileo's experiments with motion, this study of 25 crucial discoveries includes Newton's laws of motion, Chadwick's study of the neutron, Hertz on electromagnetic waves, and more.
Further Mathematical Diversions - Martin Gardner 1970

Mathematics of Relativity - George Yuri Rainich 2014-08-20
Concise treatment, based on ideas of Einstein and Minkowski, geared toward advanced undergraduates and graduate students of physics. Topics include old physics, new geometry, special relativity, curved space, and general relativity. 1950 edition.
Great Scientific Experiments - Rom Harre 2013-01-17
Vivid, readable, accurate tales

of landmark inquiries include Aristotle's work on embryology of the chick, Galileo's discovery of the law of descent, Newton's experiment on nature of colors, more.

Einstein's Theory of Relativity - Max Born 2012-05-23

Semi-technical account includes a review of classical physics (origin of space and time measurements, Ptolemaic and Copernican astronomy, laws of motion, inertia, more) and of Einstein's theories of relativity.

The Thirteen Books of the Elements - Euclid 2012-08-15

Volume 1 of 3-volume set containing complete English text of all 13 books of the Elements plus critical analysis of each definition, postulate, and proposition. Vol. 1 includes Introduction, Books I and II: Triangles, rectangles.

The Universe in a Handkerchief - Martin Gardner 2007-04-03

This book contains scores of intriguing puzzles and paradoxes from Lewis Carroll, the author of Alice in Wonderland, whose interests ranged from inventing new games like Arithmetical Croquet to important problems in symbolic logic and propositional calculus. Written by Carroll expert and well-known mathematics author Martin Gardner, this tour through Carroll's inventions is both fun and informative.

Introduction to Special Relativity - James H. Smith 2016-03-22

By the year 1900, most of physics seemed to be encompassed in the two great theories of Newtonian mechanics and Maxwell's theory of electromagnetism. Unfortunately, there were inconsistencies between the two theories that seemed irreconcilable. Although many physicists struggled with the problem, it took the genius of Einstein to see that the inconsistencies were concerned not merely with mechanics and electromagnetism, but with our most elementary ideas of space and time. In the special theory of relativity, Einstein resolved these difficulties and

profoundly altered our conception of the physical universe. Readers looking for a concise, well-written explanation of one of the most important theories in modern physics need search no further than this lucid undergraduate-level text. Replete with examples that make it especially suitable for self-study, the book assumes only a knowledge of algebra. Topics include classical relativity and the relativity postulate, time dilation, the twin paradox, momentum and energy, particles of zero mass, electric and magnetic fields and forces, and more.

Modern Quantum Chemistry - Attila Szabo 2012-06-08
This graduate-level text explains the modern in-depth approaches to the calculation of electronic structure and the properties of molecules. Largely self-contained, it features more than 150 exercises. 1989 edition.

Relativity Simply Explained - Martin Gardner 2012-12-19
One of the subject's clearest, most entertaining introductions offers lucid explanations of special and general theories of relativity, gravity, and spacetime, models of the universe, and more. 100 illustrations.

Inside Relativity - Delo E. Mook 1987
Here a physicist and a professor of literature guide general readers through the ideas that revolutionized our conception of the physical universe.

The Theory of One - Christopher Bek 2015-12-04
The theory of one brings the reader face to face with the stunning realization that the universe is bounded—rather than unbounded, as Einstein and others have asserted. The theory of one delivers the ocean. It is the theory that spells the end of physics. It is the monolith of 2001—a spacetime odyssey.

The Night Is Large - Martin Gardner 1997-07-15
An anthology of fifty-four essays representing nearly sixty years of work encompasses topics ranging from the mysteries of quantum

physics to the question of the existence of God to the paradox of the significance of nothing

Relativity and Common Sense - Hermann Bondi 1964-01-01

This radically reoriented and popular presentation of Einstein's Special Theory of Relativity derives its concepts from Newtonian ideas rather than by opposing them. It demonstrates that time is relative rather than absolute, that high speeds affect the nature of time, and that acceleration affects speed, time, and mass. Very little mathematics is required, and 60 illustrations augment the text.

Another Fine Math You've Got Me Into. . . - Ian Stewart 2013-02-20

Sixteen columns from the French edition of Scientific American feature oddball characters and wacky wordplay in a mathematical wonderland of puzzles and games that also imparts significant mathematical ideas. 1992 edition.

Time Travel and Other Mathematical Bewilderments - Martin Gardner 2020-10-06

Martin Gardner's Mathematical Games columns in Scientific American inspired and entertained several generations of mathematicians and scientists. Gardner in his crystal-clear prose illuminated corners of mathematics, especially recreational mathematics, that most people had no idea existed. His playful spirit and inquisitive nature invite the reader into an exploration of beautiful mathematical ideas along with him. These columns were both a revelation and a gift when he wrote them; no one--before Gardner--had written about mathematics like this. They continue to be a marvel. This is the original 1988 edition and contains columns published from 1974-1976.

The Thirteen Books of Euclid's Elements - Euclid 1956-01-01

Contains the complete English text of all thirteen books of the "Elements," along with critical analysis of each definition,

postulate, and proposition.

The Extraterrestrial Life Debate, 1750-1900 - Michael J. Crowe 2012-05-04

Detailed, scholarly study examines the ideas that developed between 1750 and 1900 regarding the existence of intelligent extraterrestrial life, including those of Kant, Herschel, Voltaire, Lowell, many others. 16 illustrations.

Codes, Ciphers and Secret Writing - Martin Gardner 2013-04-10

Cipher and decipher codes: transposition and polyalphabetical ciphers, famous codes, typewriter and telephone codes, codes that use playing cards, knots, and swizzle sticks . . . even invisible writing and sending messages through space. 45 diagrams.

Relativity Simply Explained - Martin Gardner 1997-01-01

One of the subject's clearest, most entertaining introductions offers lucid explanations of special and general theories of relativity, gravity, and spacetime, models of the universe, and more. 100 illustrations.

Prelude to Mathematics - W. W. Sawyer 2012-04-19

This lively, stimulating account of non-Euclidean geometry by a noted mathematician covers matrices, determinants, group theory, and many other related topics, with an emphasis on the subject's novel, striking aspects. 1955 edition.

Relativity: A Very Short Introduction - Russell Stannard 2008-07-24

100 years ago, Einstein's theory of relativity shattered the world of physics. Our comforting Newtonian ideas of space and time were replaced by bizarre and counterintuitive conclusions: if you move at high speed, time slows down, space squashes up and you get heavier; travel fast enough and you could weigh as much as a jumbo jet, be squashed thinner than a CD without feeling a thing - and live for ever. And that was just the Special Theory. With the General Theory came even stranger ideas of curved space-time, and changed our understanding of gravity and the cosmos. This authoritative and entertaining

Very Short Introduction makes the theory of relativity accessible and understandable. Using very little mathematics, Russell Stannard explains the important concepts of relativity, from E=mc2 to black holes, and explores the theory's impact on science and on our understanding of the universe. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Relativity Visualized - 1985

Perfect for those interested in physics but who are not physicists or mathematicians, this book makes relativity so simple that a child can understand it. By replacing equations with diagrams, the book allows non-specialist readers to fully understand the concepts in relativity without the slow, painful progress so often associated with a complicated scientific subject. It allows readers not only to know how relativity works, but also to intuitively understand it.

The Magic of Numbers - Eric Temple Bell 2014-06-10

Superb, stimulating account of origins of mathematical thought and development of numerical theory. Probes the work of Pythagoras, Galileo, Berkeley, Einstein, and others, exploring influence of "number magic" on religion, philosophy, science, mathematics.

Optical Properties of Thin Solid Films - O. S. Heavens 1991-01-01

Authoritative reference treats the formation, structure, optical properties, and uses of thin solid films, emphasizing causes of their unusual qualities. 162 figures. 19 tables. 1955 edition.