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The Restless Universe - Max Born 2013-09-26 Highly readable introduction to modern physics, written by a Nobel laureate, develops general concepts of Newtonian mechanics and thermodynamics. Additional topics include the structure of the atom and nuclear physics.

Exploring the Moon Through Binoculars and Small Telescopes - Ernest H. Cherrington 1984-01-01
Informative, profusely illustrated guide to locating and identifying craters, rills, seas, mountains, other lunar features. Newly revised and updated with special section of new photos. Over 100 photos and diagrams. "Extraordinary delight awaits the amateur astronomer or teacher who opens this book." — The Science Teacher.

Contributions to the Founding of the Theory of Transfinite Numbers - Georg Cantor 1911

Theory of Relativity - W. Pauli 2013-04-15
Nobel Laureate's brilliant early treatise on Einstein's theory consists of his original 1921 text plus retrospective comments 35 years later. Concise and comprehensive, it pays special attention to unified field theories.

Mental Magic - Martin Gardner 2012-08-29
Professor Picanumba has dozens of surefire tricks up his sleeve — and he's willing to show junior mathemagicians how to predict the answers to 88 word and number challenges. Includes solutions and illustrations.

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.

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.

Wholeness and the Implicate Order - David Bohm 2005-07-12
David Bohm was one of the foremost scientific thinkers and philosophers of our time. Although

deeply influenced by Einstein, he was also, more unusually for a scientist, inspired by mysticism. Indeed, in the 1970s and 1980s he made contact with both J. Krishnamurti and the Dalai Lama whose teachings helped shape his work. In both science and philosophy, Bohm's main concern was with understanding the nature of reality in general and of consciousness in particular. In this classic work he develops a theory of quantum physics which treats the totality of existence as an unbroken whole. Writing clearly and without technical jargon, he makes complex ideas accessible to anyone interested in the nature of reality.

Fads and Fallacies in the Name of Science - Martin Gardner 1957-06-01
Reviews fads, hoaxes, and cults propagated under the guise of being scientifically founded and proven

Flatland - Edwin A. Abbott 2006-07-13
'Upward, yet not Northward.' How would a creature limited to two dimensions be able to grasp the possibility of a third? Edwin A. Abbott's droll and delightful 'romance of many dimensions' explores this conundrum in the experiences of his protagonist, A Square, whose linear world is invaded by an emissary Sphere bringing the gospel of the third dimension on the eve of the new millennium. Part geometry lesson, part social satire, this classic work of science fiction brilliantly succeeds in enlarging all readers' imaginations beyond the limits of our 'respective dimensional prejudices'. In a world where class is determined by how many sides you possess, and women are straight lines, the prospects for enlightenment are boundless, and Abbott's hypotheses about a fourth and higher dimensions seem startlingly relevant today. This new edition of Flatland illuminates the social and intellectual context that produced the work as well as the timeless questions that it raises about the limits of our perception and knowledge. ABOUT THE SERIES: For over 100 years Oxford World's Classics has made

available the widest range of literature from around the globe. Each affordable volume reflects Oxford's commitment to scholarship, providing the most accurate text plus a wealth of other valuable features, including expert introductions by leading authorities, helpful notes to clarify the text, up-to-date bibliographies for further study, and much more.

My Best Mathematical and Logic Puzzles - Martin Gardner 2013-04-10
The noted expert selects 70 of his favorite "short" puzzles, including such mind-bogglers as The Returning Explorer, The Mutilated Chessboard, Scrambled Box Tops, and dozens more involving logic and basic math. Solutions included.

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.

Quantum Mechanics in Simple Matrix Form - Thomas F. Jordan 2012-05-23
With this text, basic quantum mechanics becomes accessible to undergraduates with no background in mathematics beyond algebra. Includes more than 100 problems and 38 figures. 1986 edition.

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)

The Special Theory of Relativity - David Bohm 1996
The book presents the theory of relativity as a unified whole. By showing that the concepts of this theory are interrelated to form a unified totality David Bohm supplements some of the more specialist courses which have tended to give students a fragmentary impression of the logical and conceptual nature of physics as a whole.

The Continuum - Hermann Weyl 1994-01-01
Concise classic by great mathematician and physicist deals with logic and mathematics of set and function, concept of number and the continuum. Bibliography. Originally published 1918.

The Astronomy Book - DK 2021-02-02
Since the dawn of humankind, people have looked upward to the heavens and tried to understand them. This encyclopedia takes you on an expedition through time and space to discover our place in the universe. We invite you to take a journey through the wonders of the universe. Explore the cosmos, from planets to black holes, the Big Bang, and everything in-between! Get ready to discover the story of the universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. Big Ideas How do we measure the universe? Where is the event horizon? What is dark matter? Now you can find out all the answers to these questions and so much more in this inquisitive book about our universe! Using incredibly clever visual learning devices like step-by-step diagrams, you'll learn more about captivating topics from the Copernican Revolution. Dive into the mind-boggling theories of recent science in a user-

friendly format that makes the information easy to follow. Explore the biographies, theories, and discoveries of key astronomers through the ages such as Ptolemy, Galileo, Newton, Hubble, and Hawking. To infinity and beyond! Journey through space and time with us: - From Myth to Science 600 BCE - 1550 CE - The Telescope Revolution 1550 - 1750 - Uranus to Neptune 1750 - 1850 - The Rise of Astrophysics 1850 - 1915 - Atom, Stars, And Galaxies 1915 - 1950 - New Windows on The Universe 1950 - 1917 - The Triumph of Technology 1975 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand. Shortlisted: A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honoring Excellence Gold Seal of Approval for Young Adult Books A Parents' Choice Gold Award winner

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.

Meson Theory of Nuclear Forces - Wolfgang Pauli 2017-08-24
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possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The Fabric of Reality - David Deutsch 2011-04-14

An extraordinary and challenging synthesis of ideas uniting Quantum Theory, and the theories of Computation, Knowledge and Evolution, Deutsch's extraordinary book explores the deep connections between these strands which reveal the fabric of realityin which human actions and ideas play essential roles.

Introduction to the Theory of Relativity - Peter Gabriel Bergmann 1976-01-01 Comprehensive coverage of special theory (frames of reference, Lorentz transformation, more), general theory (principle of equivalence, more) and unified theory (Weyl's gauge-invariant geometry, more.) Foreword by Albert Einstein.

Understanding Einstein's Theories of Relativity - Stan Gibilisco 1991-01-01 Clear, concise exposition of both the special and general theories of relativity, intended for nonscientific readers with a knowledge of high school math. Topics include simultaneity, time dilation, length contraction, the possibility of travel to a distant star, non-Euclidean geometries, black holes, and the structure of the universe. 158 illustrations.

Introduction to Logic - Alfred Tarski 2013-07-04 This classic undergraduate treatment examines the deductive method in its first part and explores applications of logic and methodology

in constructing mathematical theories in its second part. Exercises appear throughout.

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.

Relativity and Geometry - Roberto Torretti 2014-05-20
Relativity and Geometry aims to elucidate the motivation and significance of the changes in physical geometry brought about by Einstein, in both the first and the second phases of relativity. The book contains seven chapters and a mathematical appendix. The first two chapters review a historical background of relativity. Chapter 3 centers on Einstein's first Relativity paper of 1905. Subsequent chapter presents the Minkowskian formulation of special relativity.

Chapters 5 and 6 deal with Einstein's search for general relativity from 1907 to 1915, as well as some aspects and subsequent developments of the theory. The last chapter explores the concept of simultaneity, geometric conventionalism, and a few other questions concerning space time structure, causality, and time.

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.

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.

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.

Mathematics - A. D. Aleksandrov 2012-05-07
Major survey offers comprehensive, coherent discussions of analytic geometry, algebra, differential equations, calculus of variations, functions of a complex variable, prime numbers, linear and non-Euclidean geometry, topology, functional analysis, more. 1963 edition.

Beyond Geometry - Peter Pesic 2007-01-01
Eight essays trace seminal ideas about the foundations of geometry that led to the development of Einstein's general theory of relativity. This is the only English-language collection of these important papers, some of which are extremely hard to find. Contributors include Helmholtz, Klein, Clifford, Poincaré, and Cartan.

Gravity - George Gamow 2018-10-30
Gravity is one of the four fundamental interactions that exist in nature. Understanding gravity is not only essential for understanding the motion of objects on Earth, but also the

motion of all celestial objects, and even the expansion of the Universe itself. In this book George Gamow takes an enlightening look at three scientists whose work unlocked many of the mysteries behind the laws of physics: Galileo, the first to examine closely the process of free and restricted fall; Newton, originator of a universal force; and Einstein, who proposed that gravity is no more than the curvature of the four-dimensional space-time continuum. The author has illustrated the book himself with some technical fanciful drawings.

General Relativity - Robert M. Wald 2010-05-15 "Wald's book is clearly the first textbook on general relativity with a totally modern point of view; and it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not treated in any extant book, and all these matters are considered with perception and understanding."—S. Chandrasekhar "A tour de force: lucid, straightforward, mathematically

rigorous, exacting in the analysis of the theory in its physical aspect."—L. P. Hughston, Times Higher Education Supplement "Truly excellent. . . . A sophisticated text of manageable size that will probably be read by every student of relativity, astrophysics, and field theory for years to come."—James W. York, Physics Today *Unsolved Problems in Special and General Relativity* - Florentin Smarandache (Chief Editor), Fu Yuhua and Zhao Fengjuan (Vice-Chief Editors) 2013

Martin Gardner's Science Magic - Martin Gardner 2012-09-19
Fun and fascinating, 89 simple magic tricks will teach both children and adults the scientific principles behind electricity, magnetism, sound, gravity, water, and more. Only basic everyday items are needed. Includes 89 black-and-white illustrations.
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.

Mr Tompkins in Paperback - George Gamow 2012-03-26
Since his first appearance over sixty years ago, Mr Tompkins has become known and loved by many thousands of readers as the bank clerk whose fantastic dreams and adventures lead him into a world inside the atom. George Gamow's classic provides a delightful explanation of the central concepts in modern physics, from atomic structure to relativity, and quantum theory to fusion and fission. Roger Penrose's foreword introduces Mr Tompkins to a new generation of readers and reviews his adventures in light of recent developments in physics.

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.

Harmonic Proportion and Form in Nature, Art and Architecture - Samuel Colman 2003-01-01
A treatise on the laws governing proportional form in both nature and the arts and sciences, this well-illustrated volume demonstrates how a design can captivate both the eye and the mind. Flowers and shells appear here, along with artistic creations, in a study of the similarity of their constructive principles.

The Direction of Time - Hans Reichenbach 2012-10-10
Distinguished physicist examines emotive significance of time, time order of mechanics, time direction of thermodynamics and microstatistics, time direction of macrostatistics, time of quantum physics, more. 1971 edition.

A History of Mechanics - René Dugas 2012-11-07
Monumental study traces the history of

mechanical principles chronologically from antiquity through the early 20th century.

Contributions of ancient Greeks, Leonardo, Galileo, Kepler, Lagrange, others. 116 illustrations.