Relativity Simply Explained Dover Classics Of Science Mathematics

Entertaining Science Experiments with Everyday Objects
The Principle of Relativity
Mathematics of Classical and Quantum Physics
An Introduction to the Theory of Relativity (Classic Reprint)
Stars and Relativity
Investigations on the Theory of the Brownian Movement
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Theory of Relativity
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Introduction to the Theory of Relativity
The Theory of Relativity
Space-Time for Absolute Beginners
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Einstein's Theory of Relativity
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Fads and Fallacies in the Name of Science
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The Special Theory of Relativity
Mathematics of Relativity
Mr Tompkins in Paperback
Relativity and Its Roots
Elements of Relativity Theory

BRAXTON TRINITY

Entertaining Science Experiments with Everyday Objects Cambridge University Press
PREFACE. THE Author of this very practical treatise on Scotch Loch - Fishing desires clearly that it may be of use to all who had it. He does not pretend to have written anything new, but to have attempted to put what he has to say in as readable a form as possible. Everything in the way of the history and habits of fish has been studiously avoided, and technicalities have been used as sparingly as possible. The writing of this book has afforded him pleasure in his leisure moments, and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general. This section is interleaved with blank shects for the readers notes. The Author need hardly say that any suggestions addressed to the case of the publishers, will meet with consideration in a future edition. We do not pretend to write or enlarge upon a new subject. Much has been said and written-and well said and written too on the art of fishing but loch-fishing has been rather looked upon as a second-rate performance, and to dispel this idea is one of the objects for which this present treatise has been written. Far be it from us to say anything against fishing, lawfully practised in any form but many pent up in our large towns will bear us out when me say that, on the whole, a days loch-fishing is the most convenient. One great matter is, that the loch-fisher is depend- ent on nothing but enough wind to curl the water, -and on a large loch it is very seldom that a dead calm prevails all day, -and can make his arrangements for a day, weeks beforehand whereas the stream- fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river, it is quite another matter to arrange for a days river-fishing, if one is looking forward to a holiday at a date some weeks ahead. Providence may favour the expectant angler with a good day, and the water in order but experience has taught most of us that the good days are in the minority, and that, as is the case with our rapid running streams, -such as many of our northern streams are, -the water is either too large or too small, unless, as previously remarked, you live near at hand, and can catch it at its best. A common belief in regard to loch-fishing is, that the tyro and the experienced angler have nearly the same chance in fishing, -the one from the stern and the other from the bow of the same boat. Of all the absurd beliefs as to loch-fishing, this is one of the most absurd. Try it. Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy, or even a cast similar to those which a crack may be using and if he catches one for every three the other has, he may consider himself very lucky. Of course there are lochs where the fish are not abundant, and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught, and where each has a fair chance. Again, it is said that the boatman has as much to do with catching trout in a loch as the angler. Well, we dont deny that. In an untried loch it is necessary to have the guidance of a good boatman but the same argument holds good as to stream-fishing...

The Principle of Relativity Cambridge University Press
Entertaining, nontechnical demonstrations of the meaning of relativity theory trace development from basis in geometrical, cosmological ideas of the ancient Greeks, plus work by Kepler, Galileo, Newton, others. 1983 edition.

Mathematics of Classical and Quantum Physics Courier Corporation
Excerpt from An Introduction to the Theory of Relativity The great question is, What is it all about? To this question some give one answer and some another; but none, to the writer's knowledge, give so clear an answer as Einstein himself, * and even he answersit by implication rather than directly. Still the implication of his definitions of the Special, or Restricted, and of the General principles is so plain that there is no mistaking it. His definition of the Restricted Principle, which need not be given here, as it is fully dealt with in the following pages, is a compendium of the special theory and it is easily generalized. His definition of the General Principle simply repeats the definition of the Restricted Prin ciple in wider terms, and he makes it quite clear thatelativity as a whole is Me wary of Me stato mom ofgonemlfi/zysz'oal laws informs common to all oosem/ers) It is something of a puzzle why other writers of authority have not given this fact a more prominent place and stated it plainly and explicitly. It may have been because it seemed so obvious as not to require emphasis, but to the writer's mind the greater part of the mystery which has sur rounded the subject has arisen through failure to grasp it. It was certainly so in his own case. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

An Introduction to the Theory of Relativity (Classic Reprint) Independently Published
Writing a new book on the classic subject of Special Relativity, on which numerous important physicists have contributed and many books have already been written, can be like adding another epicycle to the Ptolemaic cosmology. Furthermore, it is our belief that if a book has no new elements, but simply repeats what is written in the existing literature, perhaps with a different style, then this is not enough to justify its publication. However, after having spent a number of years, both in class and research with relativity, I have come to the conclusion that there exists a place for a new book. Since it appears that somewhere along the way, mathem- ics may have obscured and prevailed to the degree that we tend to teach relativity (and I believe, theoretical physics) simply using “heavier” mathematics without the inspiration and the mastery of the classic physicists of the last century. Moreover current trends encourage the application of techniques in producing quick results and not tedious conceptual approaches resulting in long-lasting reasoning. On the other hand, physics

cannot be done a´ la carte stripped from philosophy, or, to put it in a simple but dramatic context A building is not an accumulation of stones! As a result of the above, a major aim in the writing of this book has been the distinction between the mathematics of Minkowski space and the physics of r- ativity.

Stars and Relativity Courier Corporation

Presents a step-by-step explanation of Einstein's Special Theory of Relativity through a series of diagrams rather than equations.

Investigations on the Theory of the Brownian Movement Forgotten Books

Here are the 11 papers that forged the general and special theories of relativity: seven papers by Einstein, plus two papers by Lorentz and one each by Minkowski and Weyl. "A thrill to read again the original papers by these giants." — School Science and Mathematics. 1923 edition.

Classical Dynamics Courier Corporation

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.

Gravitational Curvature Insight Press, Incorporated

Hollywood and science have found each other, and seem to have formed the strongest bond to date. The increasing use of science consultants in science fiction and science-themed productions, from comedies like The Big Bang Theory to dramas like Breaking Bad, as well as the creation of the Science and Entertainment Exchange by the National Academy of Sciences, suggests a new level of Interaction between science and entertainment media that will surely benefit both sides. What finally catalyzed this reaction? This eclectic collection of essays examines the connections between Hollywood and science, with a primary focus on the current state of the relationship. It features contributions from screenwriters, producers, directors, scientists, science advisors, science writers, even a music composer and a dramaturge. The formats of the chapters contained herein are equally eclectic: some take the form of academic journal articles, some are written as less formal interviews, and some are narratives. The tones of the offerings range from the purely serious to the comedic. The first half of the book focuses on the various approaches that different television series and moves employ to incorporate accurate science into their productions. In other instances, authors explore the more fundamental aspects of science-like sound, music, and light-that enable audiences to appreciate television and film. The second half of the volume explores the effects that television and film have on the viewing public. Some authors explain the science, both explicit and implied, that can be found within various Hollywood productions, and explore instances where Hollywood and science failed to click, instead of meshing. Other authors examine the influence that Hollywood science has on the science community, public policy, and the legal system. Still others describe pedagogical applications of television and movie science to education-as well as Hollywood's role in motivating future generations of scientists and engineers.

The Continuum Iyer Press

DIVProceeds from general to special, including chapters on vector analysis on manifolds and integration theory. /div

Theory of Relativity Courier Corporation

Concise and practical, this text by a renowned teacher sketches the mathematical background essential to understanding the fundamentals of relativity theory. Subjects include the velocity of light, measurement of time and distance, and properties of mass and momentum, with numerous diagrams, formulas, and examples, plus exercises and solutions. 1960 edition.

The Special and General Theory of Relativity Courier Corporation

PRINT BOOK: BLACK & WHITE Print book also available in Colour. May be listed separately. Relativity Explained is unique, a complete yet straightforward explanation of relativity written by a layman for laymen, without maths. It does not make leaps in explanations nor assumptions about prior knowledge, and yet it provides readers with more than a glimpse of relativity's universe-shattering insights. Relativity Explained has been reviewed by Professor Elias Brinks of the Centre for Astrophysics Research at the University of Hertfordshire, who says, "From my first reading, I was impressed with the level of clarity Ron managed to bring to this conceptually difficult topic. Not only did I find little that was factually incorrect, I admit that some of the ways he used to approach relativity were new to me, and revealing." The physics of Relativity and Quantum Mechanics (also briefly covered in this book) have laid bare just how large is the gap between our evolution-constrained senses and the way the universe is actually built and works. Relativity Explained describes the underpinnings of this revolution, enabling readers to share in the surprises that lie 'Behind the curtain of reality'. The book has been designed in every respect to be an easy read. It is relatively short, rich in diagrams and quotes, and it also engages readers with further explorations into relativity's wider impact on human thought, in philosophy, culture and society. The completed book has been road-tested with non-scientists, popular science readers and student physicists, and revised accordingly to ensure it is as accessible as possible. Reader quotes..... Friendly text. Very helpful graphics. Good quotes throughout the book. Each section in good order and well titled. A good book for explaining in layman's terms the concepts of relativity ... I enjoyed it. As a first 'primer', I think it achieves the objectives very well, and probably gives the reader enough knowledge to proceed to more advanced texts. It was really very little effort to read the book. I've tried to read several books on the subject before, but have usually given up by about page 4! The technical part of the text flows very well. I like this brave attempt at the seemingly impossible - nothing less than to explain to the layman one of the most impenetrable theories known to science. A lot of original thought has been put into it and it's impressive. I particularly like the 'Challenging Preconceptions'. It's covering some very deep questions. The underlying physics in the book is good. The separate maths section means that certain people will not be put off at the first sign of an equation, but it's still there for anyone who is interested.

Tensor Analysis on Manifolds Pergamon

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.

Introduction to Special Relativity Courier Corporation

Four concise, brilliant lectures on mathematical methods in quantum mechanics from Nobel Prize–winning quantum pioneer build on idea of visualizing quantum theory through the use of

classical mechanics.
Lectures on Quantum Mechanics Courier Corporation
This textbook develops general relativity and its associated mathematics from a minimum of prerequisites, leading to a physical understanding of the theory in some depth.
A Sophisticate's Primer of Relativity Courier Corporation
The basic concepts of relativity theory are conveyed through worked and unworked examples in this text, which requires only elementary algebra and emphasizes physical principles and concepts. 1985 edition.
A First Course in General Relativity Courier Corporation
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.
Hollywood Chemistry Harvard University Press
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.
Relativity Visualized Courier Corporation
Since his first appearance over sixty years ago, Mr Tompkins has become known and loved by many readers as the bank clerk whose fantastic dreams lead him into a world inside the atom. This classic provides a delightful explanation of the central concepts in physics, from atomic structure to relativity.
Relativity Simply Explained Courier Corporation
Graduate-level text provides strong background in more abstract areas of dynamical theory. Hamilton's equations, d'Alembert's principle, Hamilton-Jacobi theory, other topics. Problems and references. 1977 edition.
Meson Theory of Nuclear Forces ACS Symposium
Based on the ideas of Einstein and Minkowski, this concise treatment is derived from the author's many years of teaching the mathematics of relativity at the University of Michigan. Geared toward advanced undergraduates and graduate students of physics, the text covers old physics, new geometry, special relativity, curved space, and general relativity. Beginning with a discussion of the inverse square law in terms of simple calculus, the treatment gradually introduces increasingly complicated situations and more sophisticated mathematical tools. Changes in fundamental concepts, which characterize relativity theory, and the refinements of mathematical technique are incorporated as necessary. The presentation thus offers an easier approach without sacrifice of rigor. Dover (2014) republication of the edition published by John Wiley & Sons, New York, 1950. See every Dover book in print at www.doverpublications.com