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# Relativity Simply Explained Dover Classics Of Science Mathematics

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Classics Of  
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Mathematics 2021-04-03

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**DEREK**

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*Stars and  
Relativity* John

Wiley & Sons  
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.

### **What Is Relativity?**

Courier Corporation  
A math-free introduction to the greatest scientific ideas of the last 2,000 years: "This is the book for the wannabe science nerd."  
—The Toronto Star As

smartphones, supercomputers, supercolliders, and AI propel us into an ever more unfamiliar future, How to Speak Science takes us on a rollicking historical tour of the greatest discoveries and ideas that make today's cutting-edge technologies possible. Wanting everyone to be able to "speak" science, YouTube science guru Bruce Benamran explains, accessibly and wittily, the

fundamental ideas of the physical world: matter, life, the solar system, light, electromagnetism, thermodynamics, special and general relativity, and much more. Along the way, Benamran guides us through the wildest hypotheses and most ingenious ideas of Galileo, Newton, Curie, Einstein, and science's other great minds, reminding us that while they weren't

always exactly right, they were always curious. How to Speak Science acquaints us not only with what scientists know, but how they think—so that each of us can reason like a physicist and appreciate the world in all its beautiful chaos. “The perfect example of a geeky text that is neither condescending nor highfalutin. It has sufficient genuine scientific content to keep the

techies interested, while being fast-paced enough (and at times genuinely funny) to keep the neophyte on board.”  
—E&T Magazine  
**Introduction to Special Relativity**  
Courier Corporation  
Time's 'Man of the Century', Albert Einstein is the unquestioned founder of modern physics. His theory of relativity is the most important scientific idea of the modern era. In this

short book Einstein explains, using the minimum of mathematical terms, the basic ideas and principles of the theory which has shaped the world we live in today. Unsurpassed by any subsequent books on relativity, this remains the most popular and useful exposition of Einstein's immense contribution to human knowledge.  
**A First Course in General Relativity**

lyer Press  
 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.

**Meson Theory of Nuclear Forces**

Courier Corporation  
 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.

**Gravitational Curvature**

Courier Corporation  
 Second edition of a widely-used textbook providing the first step into general relativity for undergraduate students with minimal mathematical background.  
*Classical Dynamics*  
 Elsevier  
 Here a physicist and a professor of literature guide general readers through the ideas that revolutionized our conception of the physical universe.

**Mathematics  
of Relativity**

Cambridge  
University  
Press  
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.  
**Relativity  
and  
Geometry**  
Springer  
Science &  
Business

Media  
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  
conventionalis  
m, and a few  
other

questions concerning space time structure, causality, and time.

Introduction to the Theory of Relativity

Scholastic Science Supergiants "Even in the most technical sections, the authors' writing is delightfully lucid, and they give many applications to classical and modern physics . . . Undergraduates, and those who require some understanding of special relativity for their work in

other fields, will find this elegant work a pleasure to read." —

Technology This concise account of special relativity is geared toward nonspecialists and belongs in the library of anyone interested in the subject and its applications to both classical and modern physics. The treatment takes a historical point of view, without making heavy demands on readers' mathematical abilities; in

fact, the theory is developed without the use of tensor calculus, requiring only a working knowledge of three-dimensional vector analysis. Topics include detailed coverage of the Lorentz transformation , including optical and dynamical applications, and applications to modern physics. An excellent bibliography completes this compact, accessible presentation.

<p><u>Relativity</u> Princeton University Press This book contains the great physicist's own explanation of both the special and general theories of relativity. Written for readers interested in the theory but not conversant with the mathematical apparatus of theoretical physics, it presents the ideas in their simplest, most intelligible form. <u>Relativity and</u></p>	<p><u>Its Roots</u> 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. <i>Special Relativity for Physicists</i> Courier Corporation This textbook develops general relativity and its associated mathematics</p>	<p>from a minimum of prerequisites, leading to a physical understanding of the theory in some depth. <i>Tensor Analysis on Manifolds</i> Insight Press, Incorporated This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations.</p>
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using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant. *Relativity* Routledge Five early papers evolve theory that won Einstein a Nobel Prize: "Movement of Small Particles Suspended in

a Stationary Liquid Demanded by the Molecular-Kinetic Theory of Heat"; "On the Theory of the Brownian Movement"; "A New Determination of Molecular Dimensions"; "Theoretical Observations on the Brownian Motion"; and "Elementary Theory of the Brownian Motion." [Investigations on the Theory of the Brownian Movement](#) Courier Corporation Understand how Einstein came to write



the most famous equation in history and see how the world was changed forever. Broken into 10 bite-sized chapters, this step-by-step journey through Einstein's mind takes his original manuscripts and makes them accessible to budding scientists everywhere. Special Relativity University of Chicago Press This book gives an excellent introduction to

the theory of special relativity. Professor Resnick presents a fundamental and unified development of the subject with unusually clear discussions of the aspects that usually trouble beginners. He includes, for example, a section on the common sense of relativity. His presentation is lively and interspersed with historical, philosophical and special topics (such as the twin paradox) that

will arouse and hold the reader's interest. You'll find many unique features that help you grasp the material, such as worked-out examples, summary tables, thought questions and a wealth of excellent problems. The emphasis throughout the book is physical. The experimental background, experimental confirmation of predictions, and the physical interpretation of principles are stressed.

The book treats relativistic kinematics, relativistic dynamics, and relativity and electromagnetism and contains special appendices on the geometric representation of space-time and on general relativity. Its organization permits an instructor to vary the length and depth of his treatment and to use the book either with or following classical physics. These features make it an ideal companion for introductory courses.

Did it Take Creativity to Find Relativity, Albert Einstein?  
Courier Corporation  
Two of the greatest astrophysicists of the 20th century explore general relativity, properties of matter under astrophysical conditions, stars, and stellar systems. A valuable resource for physicists, astronomers, graduate students.

1971 edition.  
*Fads and Fallacies in the Name of Science*  
Courier Corporation  
Written by a Nobel Prize physicist and his colleague, this compelling book uses familiar objects (trains, rulers, clocks) to illuminate the more subtle aspects of relativity. 23 illustrations.  
1959 edition.  
Inside Relativity  
Courier Dover Publications  
Through a question-and-answer

format,  
provides  
information on

the life and  
accomplishme  
nts of the  
physicist most

famous for his  
theory of  
relativity.