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# Relativity And Its Roots Banesh Hoffmann

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Inside Relativity

Einstein

The Infancy of Atomic Physics

On the Sensations of Tone as a Physiological Basis for the Theory of Music

Lasers and Holography

Theory of Relativity

Encyclopedia of Mathematics Education

The Origin, Nature, and Influence of Relativity

The Metaphysical Foundations of Modern Science

Mathematics of the Incas

The Social Roots of Einstein's Theory of Relativity

The Chemical History of a Candle

Man and Number

Relativity for the Questioning Mind

Making Your Own Telescope

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## VILLEGAS LACEY

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*Inside Relativity* Courier Corporation

To those of us who are not mathematicians or physicists, Einstein's theory of relativity often seems incomprehensible, exotic, and of little real-world use. None of this is true. Daniel F. Styer's introduction to the topic not only shows us why these beliefs are mistaken but also shines a bright light on the subject so that any curious-minded person with an understanding of algebra and geometry can both grasp and apply the theory. Styer starts off slowly and proceeds carefully, explaining the concepts undergirding relativity in language comprehensible to nonscientists yet precise and accurate enough to satisfy the most demanding professional. He demonstrates how the theory applies to various real-life situations with easy equations and simple, clear diagrams. Styer's classroom-tested method of conveying the core ideas of relativity—the relationship among and between time, space, and motion and the behavior of light—encourages questions and shows the way to finding the answers. Each of the book's four parts builds on the sections that come before, leading the reader by turn through an overview of foundational ideas such as frames of reference, revelatory examples of time dilation and its attendant principles, an example-based exploration of relativity, and explanations of how and why gravity and spacetime are linked. By demonstrating relativity with practical applications, Styer teaches us to truly understand and appreciate its importance, beauty, and usefulness.

Featuring worked and end-of-chapter problems and illustrated, nontechnical explanations of core concepts, while dotted throughout with questions and answers, puzzles, and paradoxes, *Relativity for the Questioning Mind* is an enjoyable-to-read, complete, concise introduction to one of the most important scientific theories yet discovered. The appendixes provide helpful hints, basic answers to the sample problems, and materials to stimulate further exploration.

**Einstein** Courier Corporation

An absorbing account of the origins of modern science as well as a biography, this book places particular emphasis on Galileo's experiments with telescopes and his observations of the sky.

*The Infancy of Atomic Physics* Cambridge University Press

This compelling history portrays the human faces and lives behind the beginnings of atomic science, from experiments in the 1880s to the era just after the First World War.

*On the Sensations of Tone as a Physiological Basis for the Theory of Music* Courier Corporation

Unique, thought-provoking study discusses quipu, an accounting system employing knotted, colored cords, used by Incas. Cultural context, mathematics involved, and even how to make a quipu. Over 125 illustrations.

**Lasers and Holography** Courier Corporation

The central subject matter of this book is Einstein's special theory of relativity. While it is a book that is written primarily for a lay audience this does not necessarily mean an audience not versed in the ways of doing science. Rather, this book is written for anyone wishing to consider the nature of the scientific enterprise: where ideas come

from, how they become established and accepted, what the relationships are among theories, predictions, and measurements, or the relationship between ideas in a scientific theory and the values held to be important within the larger culture. Some readers will find it strange that I raise any of these issues. It is a common view in our culture that the status of knowledge within science is totally different from the status of knowledge in other areas of human endeavor. The word "science" stems from the Latin word meaning "to know" and indeed, knowledge which scientists acquire in their work is commonly held to be certain, unyielding, and absolute. Consider how we use the adjective "scientific." There are investors and there are scientific investors. There are socialists and there are scientific socialists. There are exterminators and there are scientific exterminators. We all know how the modifier "scientific" intrudes in our daily life. It is the purpose of this book to challenge the belief that scientific knowledge is different from other kinds of knowledge.

*Theory of Relativity* Courier Corporation  
Abounding in lively writing and fun-filled, easy-to-perform experiments, this illustrated volume makes the fascinating world of atmospheric physics accessible to readers without a scientific background. 1991 edition.

*Encyclopedia of Mathematics Education* Courier Corporation

This undergraduate text takes the non-science student from Newton's particles to Einstein's relativity.

**The Origin, Nature, and Influence of Relativity** Courier Corporation

This text explores the formation of clouds, ice crystals, and hail. It also reviews techniques for cloud

modifications, artificial stimulation of rainfall, and modification of hailstorms. 26 figures. 16 halftones.

*The Metaphysical Foundations of Modern Science* Courier Corporation

What size and shapes are raindrops?

Where do they come from? What

happens when sea and air meet? These and many other questions take readers

into the realms of meteorology,

oceanography, physics, chemistry, and

volcanology. "Packed with interesting

and significant information." ? Florida

Scientist. 57 photographs and

illustrations.

**Mathematics of the Incas** Courier Corporation

Masterly and authoritative, this book by the foremost scholar on the 16th-century astronomer provides lucid accounts of

the development and progress of the

Copernican theory as well as a

fascinating portrait of the man who

clarified the basis for modern cosmology. 41 figures. 6 halftones.

**The Social Roots of Einstein's**

**Theory of Relativity** Courier

Corporation

This highly readable text by a famous

inventor explores the components and

weight of the atmosphere; capillary

attraction; carbon content in oxygen and

living bodies; and much more. Numerous

illustrations.

**The Chemical History of a Candle**

Courier Corporation

Accessible, illustrated introduction

covers wave patterns and coherence,

summarizes the development of lasers

and the phenomenon of wave diffraction,

and describes zone plates and properties

of holograms. 1981 edition.

**Man and Number** Oxford University

Press

From Isaacson, the bestselling author of

"Benjamin Franklin," comes the first full

biography of Albert Einstein since all his papers have become available--a fully realized portrait of a premier icon of his era.

### **Relativity for the Questioning Mind**

LAP Lambert Academic Publishing

This 1661 classic defines the term "element" and asserts that all natural phenomena can be explained by the motion and organization of primary particles. 1911 edition.

### **Making Your Own Telescope**

Routledge

Classic text by a distinguished physician summarizes, interprets, and systematizes the traditions of homeopathy; describes how to take a case history and study it; and explains how to interpret the many reactions to therapy and achieve a scientific understanding of a cure. Unabridged reprint of the classic 1900 edition.

### **Fluvial Processes in Geomorphology**

Courier Corporation

Dr. Glenn Borchardt has over fifty years of practical and theoretical experience in science and philosophy. He has produced over 500 scientific reports, including journal articles, books, chapters, abstracts, computer programs, and consulting reports. His most notable books are: "The Ten Assumptions of Science," which opposes the foundations of science and religion, "The Scientific Worldview," which proclaims the universal mechanism of evolution as the key to understanding the universe, and "Infinite Universe Theory," as the ultimate replacement for the Big Bang Theory. Borchardt is the Director of the Progressive Science Institute in Berkeley California. Religious Roots of Relativity shows that, unlike other scientific theories, relativity is founded on religious assumptions. Glenn Borchardt, author of The Ten Assumptions of

Science, elaborates on the opposing indeterministic assumptions to present "The Ten Assumptions of Religion" as the framework for this new book. Each fundamental religious assumption is shown to have much in common with the fundamental assumptions Einstein subconsciously used in devising Special and General Relativity Theory. One theme runs through the entire book: Einstein's erroneous assumption that space was perfectly empty. That was critical for his popular Untired Light Theory, as it has been for popular biblical creation stories, and for popular Big Bang Theory. There is no evidence, however, for perfectly empty space; it is only an idealization akin to the dreams and imaginings of religion. It cannot possibly exist. Nonexistence, nothingness, therefore is impossible. The universe exists everywhere and for all time. Without relativity and its foundation in religion, the book predicts Big Bang Theory will be victim to the Last Cosmological Revolution: Infinite Universe Theory. This is the book for you if you have wondered why relativity has remained lucrative and popular despite its weird paradoxes, contradictions, and interpretations. This is the book showing the intimate, necessary connection between relativity and religion, which has led to relativity's longevity and indubitable veracity among those who still hold fast to religious assumptions. "Wow! I finished reading your book in one day! I just couldn't stop scrolling the pages. It was an enjoyable read and very well written. You have a great writing style that is easy to read. Nice final sentence too." -Bill Howell" Borchardt's new book is ultimately a fast read, because (like all his books) once you start reading it, you can't put it down. And, literally, you can't put it down

physically, and you can't put it down argumentatively. Some may disagree with it. But that would only reveal the indeterminist within. Borchardt ends his masterpiece with a look forward to the inevitable paradigm shift, and how mankind will be better off for it." -Fred Frees

Glenn Borchardt's book "Religious Roots of Relativity" is not just about relativity and religion, it's not only about physics, it's much more, about science which is under a siege by everything what is not science. If I had to review Borchardt's book: "Religious Roots of Relativity" in only once sentence, I would say: We need more books like this one!" -Rudolf Vrnoga

Impressive piece of work! Very much in line with Collingwood and my essay on the subject. I had never realized these assumptions were of religious origin, though, besides the priest's obvious motivations." -Pierre Berrigan

Glenn Borchardt's book uses the hammer of Infinity to explain and destroy the junk theories that plague 'Official' physics today. This is a book that should be used in college courses, to give students a basic understanding of how physics is done. Physics has 'gone off the rails' for a century and it is books like Borchardt's that will return physics from its current unscientific and anti-materialist base and back on to a scientific and materialist road." -Mike Gimbel

Cloud Physics Routledge

Fractals and chaos theory lead to startling graphics in this book by a renowned scientist, inventor, and artist, who coordinates information from disparate fields. Over 275 illustrations, 29 in color.

The Roots of Special Relativity Courier Corporation

This single-volume compilation consists

of Hyperbolic Functions, introducing the hyperbolic sine, cosine, and tangent; Configuration Theorems, concerning collinear points and concurrent lines; and Equivalent and Equidecomposable Figures, regarding polyhedrons. 1963 edition.

Kepler's Somnium Springer Science & Business Media

Absorbing monograph by expert sets forth most of known properties of lightning: cloud and lightning charges, stepped leader, return stroke, dart leader, lightning on other planets, thunder, more. 144 illustrations.

**The Great Beyond** JHU Press

Modern science has changed every aspect of life in ways that cannot be compared to developments of previous eras. This four-volume set presents key developments within modern physical science and the effects of these discoveries on modern global life. The first two volumes explore the history of the concept of relativity, the cultural roots of science, the concept of time and gravity before, during, and after Einstein's theory, and the cultural reception of relativity. Volume 3 explores the impact of modern science upon global politics and the creation of a new kind of war, and Volume 4 details the old and new efforts surrounding the elucidation of the quantum world, as well as the cultural impact of particle physics. This reprint collection pools the best scholarship available, collected from a large array of difficult to acquire books, journals, and pamphlets. Each volume begins with an introductory essay, written by one of the top scholars in the history of science. Students and scholars of modern culture, science, and society will find these volumes a veritable research gold mine.

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