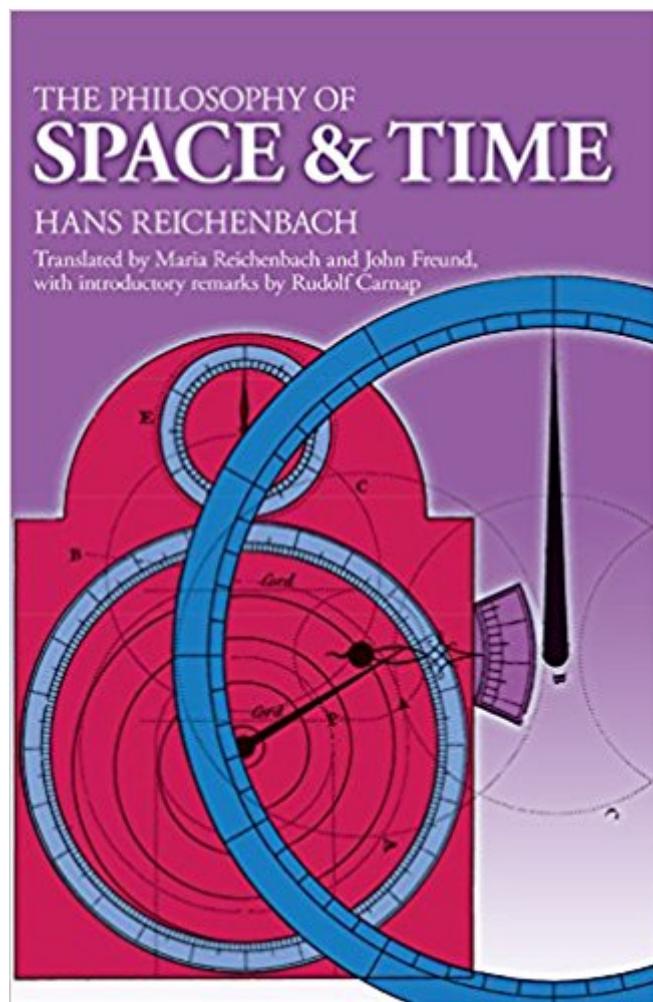


The book was found

The Philosophy Of Space And Time (Dover Books On Physics)



Synopsis

With unusual depth and clarity, it covers the problem of the foundations of geometry, the theory of time, the theory and consequences of Einstein's relativity including: relations between theory and observations, coordinate definitions, relations between topological and metrical properties of space, the psychological problem of the possibility of a visual intuition of non-Euclidean structures, and many other important topics in modern science and philosophy. While some of the book utilizes mathematics of a somewhat advanced nature, the exposition is so careful and complete that most people familiar with the philosophy of science or some intermediate mathematics will understand the majority of the ideas and problems discussed. Partial CONTENTS: I. The Problem of Physical Geometry. Universal and Differential Forces. Visualization of Geometries. Spaces with non-Euclidean Topological Properties. Geometry as a Theory of Relations. II. The Difference between Space and Time. Simultaneity. Time Order. Unreal Sequences. III. The Problem of a Combined Theory of Space and Time. Construction of the Space-Time Metric. Lorentz and Einstein Contractions. Addition Theorem of Velocities. Principle of Equivalence. Einstein's Concept of the Problems of Rotation and Gravitation. Gravitation and Geometry. Riemannian Spaces. The Singular Nature of Time. Spatial Dimensions. Reality of Space and Time.

Book Information

Series: Dover Books on Physics

Paperback: 336 pages

Publisher: Dover Publications; 1st English Ed. edition (June 1, 1957)

Language: English

ISBN-10: 0486604438

ISBN-13: 978-0486604435

Product Dimensions: 5.4 x 0.6 x 8 inches

Shipping Weight: 11.7 ounces (View shipping rates and policies)

Average Customer Review: 3.9 out of 5 stars Â See all reviews Â (23 customer reviews)

Best Sellers Rank: #473,730 in Books (See Top 100 in Books) #187 in Books > Textbooks > Humanities > Philosophy > Metaphysics #195 in Books > Science & Math > Physics > Relativity #231 in Books > Textbooks > Humanities > Philosophy > Logic

Customer Reviews

Hans Reichenbach (1891-1953) was a leading philosopher of science, educator and proponent of logical empiricism (he was the founder of the â œBerlin Circleâ •); he wrote other books such as The

Rise of Scientific Philosophy. He wrote in the Introduction to this 1927 book, "The path of the present philosophical work led therefore through the natural sciences." It is hoped to give an account of the superiority of a philosophical method closely connected with the results of empirical science. Modern scientific epistemology therefore justifies discoveries of such far-reaching consequences as would, in former times, have been merely empty speculation. This book has been written in the knowledge that solutions are attainable. It is intended to present in a comprehensive fashion the treasure of philosophical results that has become the common property of scientific philosophy and also to go beyond it on new paths that were opened through a persistent analysis of mathematical physics. one may see as the noblest aim of scientific philosophy the establishment of the concept of objective truth as the ultimate criterion of all philosophical knowledge. • He says in the first chapter, "Non-Euclidean geometry is a logically constructible system---this was the first and most important result established by its inventors." • (Pg. 4) He adds, "there exists no one geometry but a plurality of geometries. With this mathematical discovery, the epistemological problem of the axioms was given a new solution. This apparently unsolvable problem turns out to be a pseudo-problem. The axioms are not true or false, but arbitrary statements.

[Download to continue reading...](#)

The Philosophy of Space and Time (Dover Books on Physics) In Search of Time: The History, Physics, and Philosophy of Time Physics for Scientists and Engineers with Modern Physics: Volume II (3rd Edition) (Physics for Scientists & Engineers) Head First Physics: A learner's companion to mechanics and practical physics (AP Physics B - Advanced Placement) Thermodynamics and the Kinetic Theory of Gases: Volume 3 of Pauli Lectures on Physics (Dover Books on Physics) Atomic Physics and Human Knowledge (Dover Books on Physics) For the Love of Physics: From the End of the Rainbow to the Edge Of Time - A Journey Through the Wonders of Physics Art and Physics: Parallel Visions in Space, Time, and Light The Time Garden Note Cards: Color-In Note Cards from the Creator of The Time Garden and The Time Chamber (Time Adult Coloring Books) Time's Arrow: The Origins of Thermodynamic Behavior (Dover Books on Physics) Book On Space: Asteroids and Meteors: Planets Book for Kids (Children's Astronomy & Space Books) Pink Floyd and Philosophy: Careful with that Axiom, Eugene! (Popular Culture and Philosophy) The Lord of the Rings and Philosophy: One Book to Rule Them All (Popular Culture and Philosophy) The Ultimate Walking Dead and Philosophy (Popular Culture and Philosophy) Books for Kids: It's Time to Sleep (Children's Book, Picture Books, Preschool Books, Baby Books, Kids Books, Ages 3-5) Philosophy's Second Revolution: Early and Recent Analytic Philosophy The

Story of Analytic Philosophy: Plot and Heroes (Routledge Studies in Twentieth-Century Philosophy)
Embodied Philosophy in Dance: Gaga and Ohad Naharin's Movement Research (Performance Philosophy) Current Controversies in Experimental Philosophy (Current Controversies in Philosophy) The Cambridge Companion to Renaissance Philosophy (Cambridge Companions to Philosophy)

[Dmca](#)