



Gravitation and Cosmology: Principles and Applications of the General Theory of Relativity

Steven Weinberg

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DESCRIPTION

A leading physicist delves into relativity and experimental applications

Gravitation and Cosmology: Principles and Applications of the General Theory of Relativity offers a Nobel laureate's perspectives on the wealth of data technological developments have brought to expand upon Einstein's theory. Unique in basing relativity on the Principle of Equivalence of Gravitation and Inertia over Riemannian geometry, this book explores relativity experiments and observational cosmology to provide a sound foundation upon which analyses can be made. Covering special and general relativity, tensor analysis, gravitation, curvature, and more, this book provides an engaging, insightful introduction to the forces that shape the universe.

ABOUT THE AUTHOR

Steven Weinberg ForMemRS is an American theoretical physicist and Nobel laureate in Physics for his contributions with Abdus Salam and Sheldon Glashow to the unification of the weak force and electromagnetic interaction between elementary particles.

Gravitation and Cosmology: Principles and Applications of the General Theory of Relativity. Steven Weinberg. The beauty of general relativity (GR) lies in the connection it provides between geometry and physics. Weinberg's algebraic approach completely obscures this connection. Instead Weinberg teaches how to crank through complex calculations without any insight or geometric intuition. Having been published in 1972, the book lacks modern examples in cosmology and quantum gravity. It also lacks a proper introduction to differential geometry and makes no mention of topology or other mathematical ideas prevalent in current GR research. In the 35 years since its publication, it has been surpassed by many much better books.

Principles And Applications Of The General Theory Of Relativity (Wiley, 1972)(ISBN 0471925675)(685s). Item Preview. remove-circle. Weinberg S. Gravitation And Cosmology.. Principles And Applications Of The General Theory Of Relativity (Wiley, 1972)(ISBN 0471925675)(685s). by. Steven Weinberg. General relativity (GR), also known as the general theory of relativity or (GTR), is the geometric theory of gravitation published by Albert Einstein in 1915 and the current description of gravitation in modern physics. General relativity generalizes special relativity and refines Newton's law of universal gravitation, providing a unified description of gravity as a geometric property of space and time, or spacetime. In particular, the curvature of spacetime is directly related to the energy and Is the general theory of relativity a theory that has shown its limits in this case? In this essay I argue that there are singularities, and the general theory of relativity, as any other scientific theory at present, is not (...) valid for singularities. But that does not mean, as some scientists think, that it must be regarded as being obsolete. Introduction The Doctrine of Creation and Its Warrant Cardinality and Sizes of Infinity Modern Cosmology and Creation Tolerance or Intolerance toward Singularities? Leibniz against Incompetent Watchmaker? Induction from Earlier Theories' Breakdown?

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14.Â Santilli, R.M.: Method and Apparatus for the Industrial Production of New Hydrogen-Rich Fuels, US Patent App. 14/244,229
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