

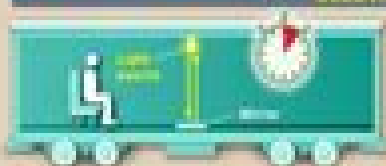
EINSTEIN'S THEORY OF RELATIVITY

There are two Theories of Relativity: the Special and the General. The Special Theory shows that movement over a straight line at a constant speed is always relative to any observer. The General Theory extends the Special Theory from uniform to accelerated motion, movement at a changing speed to over a non-straight path.

SPECIAL THEORY OF RELATIVITY

Based in a basic assumption: the speed of light is always the same regardless of the speed of the light source or observer. This fact has unexpected and astonishing ramifications.

RELATIVITY OF TIME

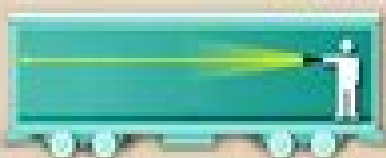


1 A man is riding on a moving train. He is timing a ray of light that travels from a source in the ceiling to a mirror on the floor and back to the ceiling. From his point of view, the light source and the mirror are stationary, so the light travels directly down and up in a perfectly vertical ray.

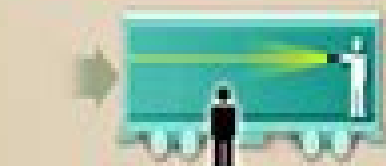
2 From the point of view of a stationary observer standing outside the train, the light source and the mirror are moving, so the light follows a path in the shape of a V. This path is longer than the one observed by the man on the train. Since light travels at the same speed for any observer, from the stationary point of view the ray takes longer than from the perspective of the man on the train. Or, in other words, time passes slower for the man in the train than for the stationary observer. So, there is no meaning to the concept of absolute time. Time is relative to the observer.



RELATIVITY OF LENGTH



3 The man in the train is now trying to measure the length of the car by sending a ray of light from one end to the other. Knowing the speed of light and the time the ray takes to reach the other end he can calculate the length of the car.



4 From the point of view of the stationary observer the end of the train is moving to meet the ray of light, so it has to travel a shorter distance. The stationary observer will calculate a shorter length for the car than the man in the train. So, there is no meaning to the concept of absolute length. Length is relative to the observer.

HISTORY'S FAMOUS EQUATION

Another important idea of the Special Theory of Relativity is the equivalence of mass and energy: mass can be converted into energy and vice versa. This relationship is expressed in the equation

$$E=mc^2$$

The energy E is contained in any quantity of mass m , that quantity of mass m multiplied by the speed of light c squared by itself. Since c^2 is an enormous number, called the *mass-energy conversion factor*, that even tiny amounts of matter contain a tremendous amount of energy. A dramatic example of the power of mass and energy in practice is the atomic bomb, which converts into energy a tiny mass of uranium.

GENERAL THEORY OF RELATIVITY

The theory asserts that accelerated motion is relative to the observer, as the Special theory did for the uniform motion. It shows that inertia (the force that presses you against the back of your seat when your car accelerates) and gravity are equivalent forces, two sides of the same phenomenon.

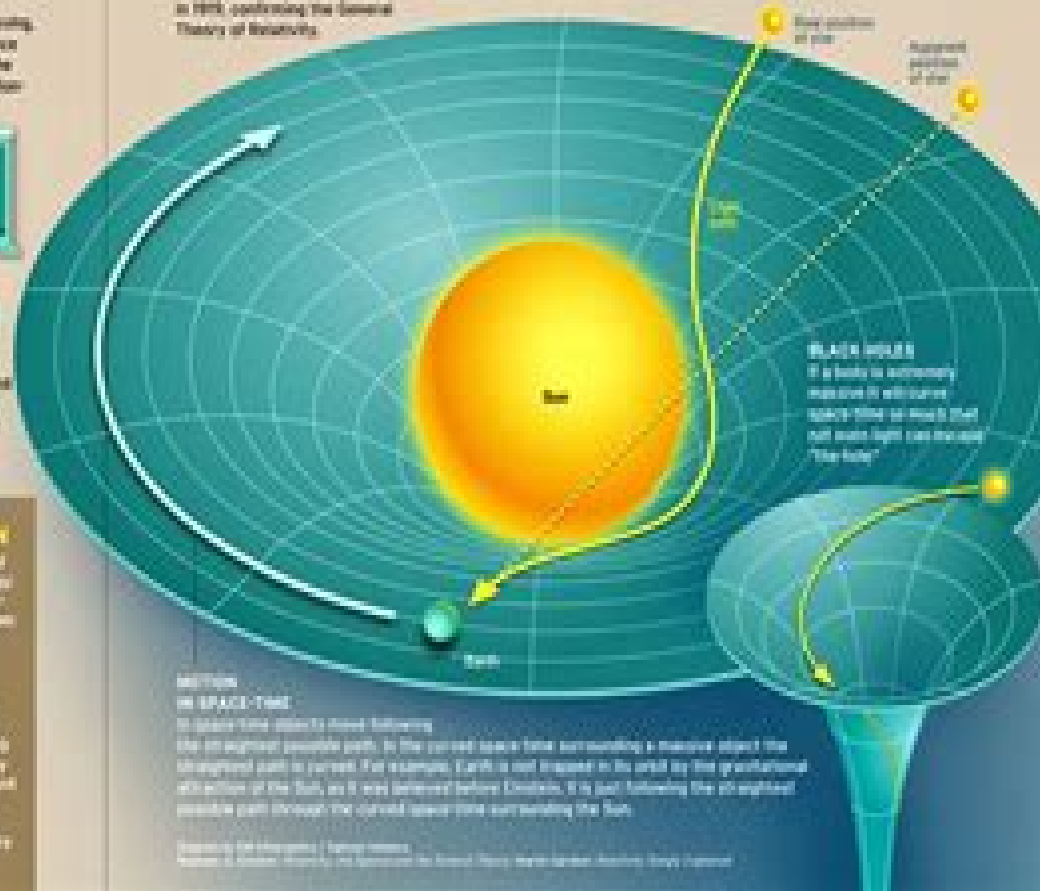
THE EQUIVALENCE OF ACCELERATION AND GRAVITY

A man is inside an elevator that is accelerating upwards at a constant rate. The forces he experiences (that pressing on the floor) and the way objects fall are indistinguishable from those produced by gravity.



THE CURVED SPACE-TIME OF GRAVITY

According to Einstein gravity is not a force at all. It is a distortion or curvature of the space-time (a four-dimensional compound of the three dimensions of space plus time) that occurs around any massive body (for example, the Sun). It's like a rubber sheet being bent by a weight placed in its center. Even light curves when passing close to a massive body. Thus the position of a star appears displaced if its light pass close to the Sun. This effect was observed in 1919, confirming the General Theory of Relativity.



WORMHOLE IN SPACE-TIME

In space-time objects don't follow the straight possible path, in the curved space-time surrounding a massive object the straightest path is curved. For example, Earth is not trapped in its orbit by the gravitational attraction of the Sun, as it was believed before Einstein. It is just following the straightest possible path through the curved space-time surrounding the Sun.

Special Theory Of Relativity Its Origins Meanings And Implications

Alexander Rosenberg



Special Theory Of Relativity Its Origins Meanings And Implications:

Origin and Concept of Relativity G. H. Keswani,1965 Theory of Special Relativity Nikhilendu Bandyopadhyay,2000

The Roots of Special Relativity Peter Galison,Michael Gordin,David Kaiser,2013-09-13 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 The Meaning of Relativity: Including The Generalization of Gravitation Theory Albert Einstein,2023-10-01 The Meaning of Relativity Four Lectures Delivered at Princeton University May 1921 is a book published by Princeton University Press in 1922 that compiled the 1921 Stafford Little Lectures at Princeton University given by Albert Einstein The lectures were translated into English by Edwin Plimpton Adams The lectures and the subsequent book were Einstein s last attempt to provide a comprehensive overview of his theory of relativity and is his only book that provides an accessible overview of the physics and mathematics of general relativity Einstein explained his goal in the preface of the book s German edition by stating he wanted to summarize the principal thoughts and mathematical methods of relativity theory and that his principal aim was to let the fundamentals in the entire train of thought of the theory emerge clearly Among other reviews the lectures were the subject of the 2017 book The Formative Years of Relativity The History and Meaning of Einstein s Princeton Lectures by Hanoch Gutfreund and J rgen Renn The Meaning of Relativity Including the Generalization of Gravitation Theory Unravel the complexities of Einstein s theory of relativity with The Meaning of Relativity This illuminating book delves into the fundamental principles of relativity including the groundbreaking concept of general relativity and its implications for our understanding of the universe Explore the interplay between spacetime physics gravitational forces and the mathematical physics that underpin our modern understanding of motion With clear explanations and insightful commentary this book offers a comprehensive exploration of the theory of relativity and its profound impact on the field of astrophysics The Meaning of Relativity Including the Generalization of Gravitation Theory theory of relativity Einstein s relativity general relativity spacetime physics gravitational forces scientific theories astrophysics space time continuum mathematical physics physics of motion Philosophy of Social Science Alexander Rosenberg,2018-04-17 Philosophy of Social Science provides a tightly argued yet accessible introduction to the

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Illustrations of the Methods of Reasoning Daniel Sommer Robinson, 1927 *Einstein vs. Bergson* Alessandra Campo, Simone Gozzano, 2021-11-08 This book brings together papers from a conference that took place in the city of L'Aquila 4-6 April 2019 to commemorate the 10th anniversary of the earthquake that struck on 6 April 2009 Philosophers and scientists from diverse fields of research debated the problem that on 6 April 1922 divided Einstein and Bergson the nature of time For Einstein scientific time is the only time that matters and the only time we can rely on Bergson however believes that scientific time is derived by abstraction even in the sense of extraction from a more fundamental time The plurality of times envisaged by the theory of Relativity does not for him contradict the philosophical intuition of the existence of a single

time But how do things stand today What can we say about the relationship between the quantitative and qualitative dimensions of time in the light of contemporary science What do quantum mechanics biology and neuroscience teach us about the nature of time The essays collected here take up the question that pitted Einstein against Bergson science against philosophy in an attempt to reverse the outcome of their monologue in two voices with a multilogue in several voices

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