

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

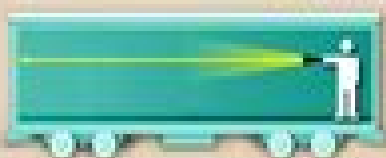


1 A man is riding on a moving train. He is timing a ray of light that travels from a source in the ceiling to a mirror on the floor and back to the ceiling. From his point of view, the light source and the mirror are stationary, so the light travels directly down and up in a perfectly vertical ray.

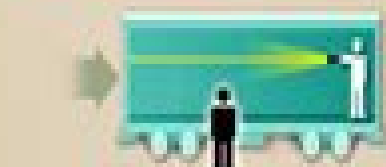
2 From the point of view of a stationary observer standing outside the train, the light source and the mirror are moving, so the light follows a path in the shape of a V. This path is longer than the one observed by the man on the train. Since light travels at the same speed for any observer, from the 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 *celerity* (which the formula shows 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.

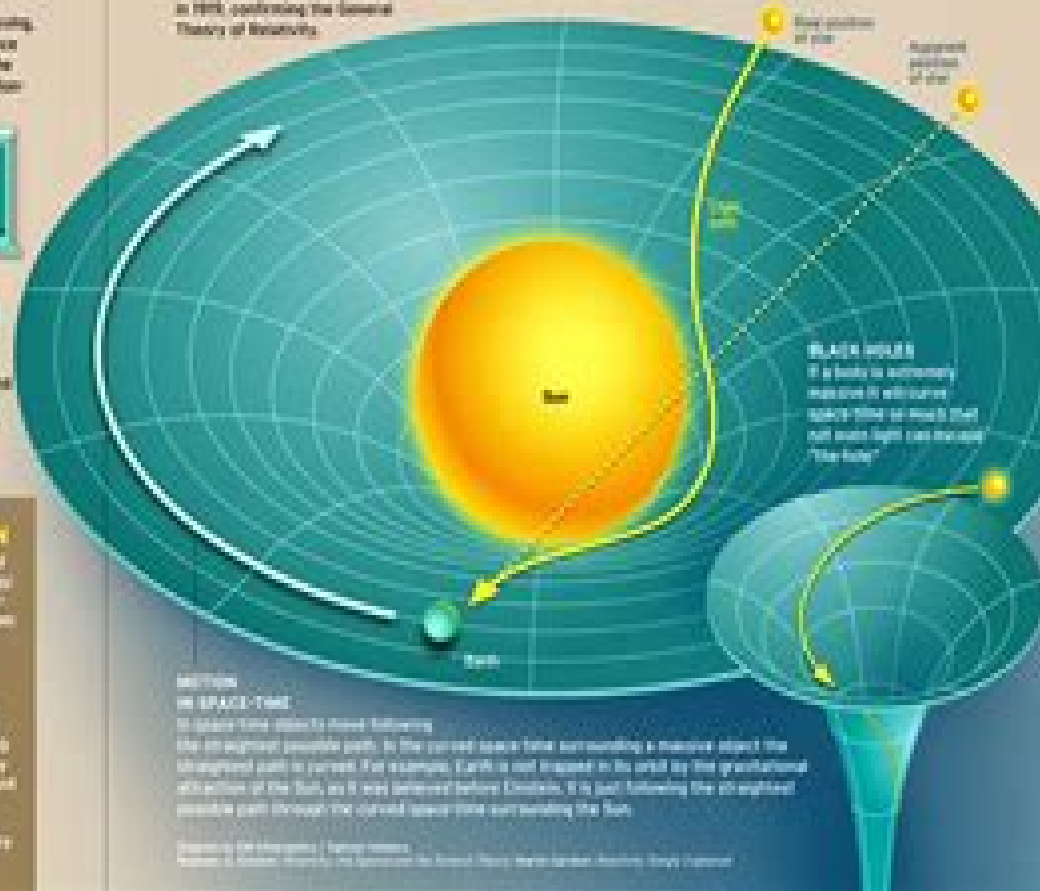
THE EQUIVALENCE OF ACCELERATION AND GRAVITY

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

Roger G. Newton



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

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philosophical foundations of the human sciences including economics anthropology sociology political science psychology history and the disciplines emerging at the intersections of these subjects with biology Philosophy is unavoidable for social scientists because the choices they make in answering questions in their disciplines force them to take sides on philosophical matters Conversely the philosophy of social science is equally necessary for philosophers since the social and behavior sciences must inform their understanding of human action norms and social institutions The fifth edition retains from previous editions an illuminating interpretation of the enduring relations between the social sciences and philosophy and reflects on developments in social research over the past two decades that have informed and renewed debate in the philosophy of social science An expanded discussion of philosophical anthropology and modern and postmodern critical theory is new for this edition

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The Lincoln Library of Essential Information, 1924 **The Origin and Its Meaning** Roger Ellman, 1996 **A to Z of Scientists in Space and Astronomy** Deborah Todd, Joseph A. Angelo, 2014-05-14 Profiles more than 130 scientists from around the world who made important contributions in the fields of space and astronomy including John Couch Adams Albert Einstein and Plato

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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Realism Saiyid Zafar al-Hasan, 1928 **Zero To Infinity: The Foundations Of Physics** Peter Rowlands, 2007-10-17 Unique in its field this book uses a methodology that is entirely new creating the simplest and most abstract foundations for physics to date The author proposes a fundamental description of process in a universal computational rewrite system leading to an irreducible form of relativistic quantum mechanics from a single operator This is not only simpler and more fundamental but also seemingly more powerful than any other quantum mechanics formalism available The methodology finds immediate applications in particle physics theoretical physics and theoretical computing In addition taking the rewrite structure more generally as a description of process the book shows how it can be applied to large scale structures beyond

the realm of fundamental physics *The Lincoln Library of Essential Information an Up to Date Manual for Daily Reference, for Self Instruction, and for General Culture Named in Appreciative Remembrance of Abraham Lincoln, the Foremost American Exemplar of Self Education* ,1924 **The Special Theory of Relativity bound with Relativity: A Very Elementary Exposition** Herbert Dingle,Sir Oliver Lodge,2014-07-17 The Special Theory of Relativity Based on a short course of lectures delivered in the late 1930s this short book presents the theory of Special Relativity by formulating a redefinition of the measurement of length and thus will appeal to students of physics who wish to think through Einstein s thought without the encumbrance of quasi scientific concepts and language Relativity A Very Elementary Exposition This brief lecture delivered in October 1921 and published for the first time in 1925 offers an explanation of Einstein s theory of Special Relativity for the non scientist giving a general overview that does justice both to the actual physics involved and the wider implications of this revolutionary discovery of the 20th century **A Stubbornly Persistent Illusion** Albert Einstein,2009-09-29 Bestselling author and physicist Stephen Hawking assembles the most groundbreaking works by Albert Einstein together into one volume and provides introductions to each work **Causes and Consequences** Sir Bampfylde Fuller,1923 *Nature* Sir Norman Lockyer,1924

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