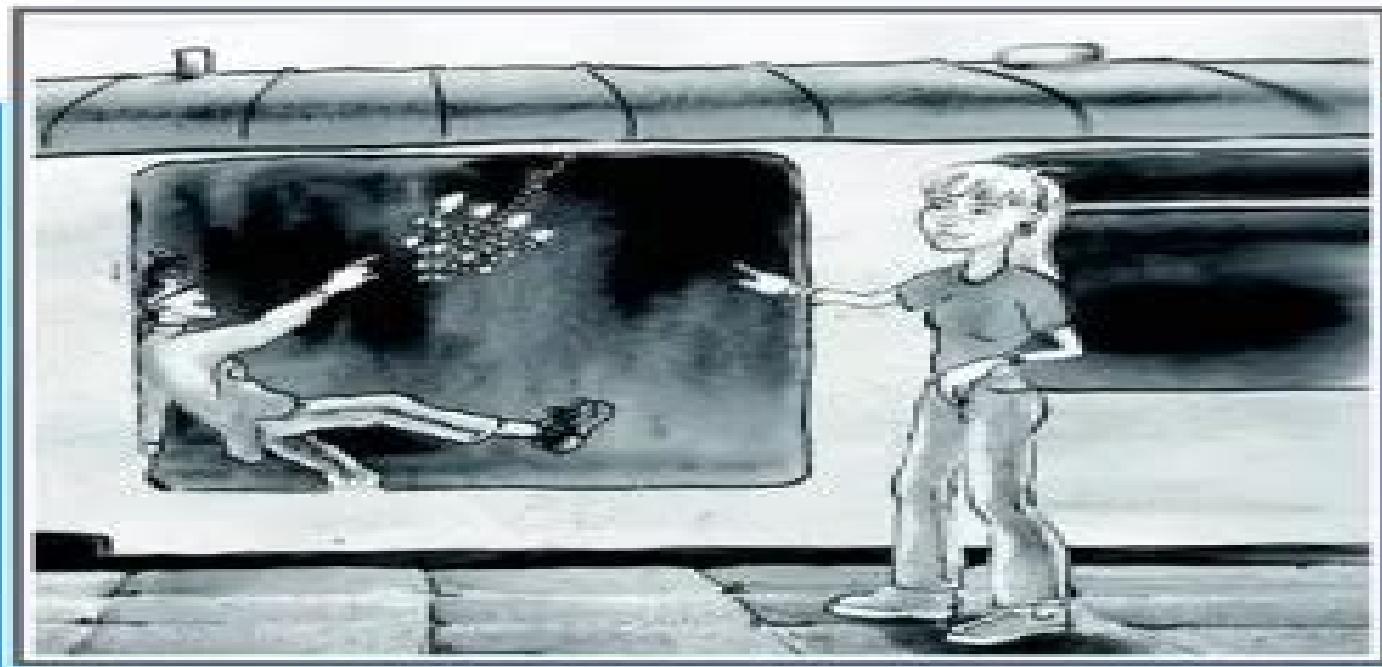


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Special Relativity & Motions faster than Light

Beginners's Guide



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Spacetime, Geometry, Cosmology William L. Burke, 2020-12-16 Novel interpretation of the relationship between space time gravitation and their cosmological implications based on author s discovery of a value in gravitation overlooked by both Newton and Einstein 1982 edition

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that the speed of light is as fast as anyone can go Einstein's theory of special relativity does not rule out faster than light FTL travel. On the contrary it seems to indicate that certain superluminal or FTL effects would permit us to re-experience the past. Time travel would become a reality not science fiction. Through this crack in the cosmic egg steps Herbert a Stanford physicist and author of *Quantum Reality* who summarizes clearly current speculation and theory about faster than light travel. Along with space warps black holes and tachyons hypothetical FTL particles he looks at the so-called quantum connection an alleged force said to instantaneously link any two subatomic particles long after they have bumped into each other. Free of the woolgathering that tints much writing on the new physics this brave exciting book should send scientists back to their drawing boards for the nonspecialist reader it reveals a world much stranger than *Star Trek*. Publishers Weekly Original challenging and audacious San Diego Magazine

Standard Space-Time Theory Shusheng Tan, Jianhua Li, Ganquan

Xie, 2025-12-06 Natural scattering is visible by light with positive frequency. No natural scattering is invisible by light with positive frequency. Visible natural sciences and invisible social and ideological sciences are called ordinary sciences. Invisible natural sciences and visible social and ideological sciences are called super sciences. Main Contents include 1 Positive Space and Negative Space and Invisible Science 2 Isotropic electromagnetic invisible GLHUA sphere 3 Anisotropic electromagnetic invisible GLHUA cloak etc 12 chapters. Standard Space time theory is one new theory of Super Science. Einstein was a great genius. His special theory of relativity has become one of the two main foundations of modern physics. The special theory of relativity fully reveals the relativity of the motion of matter which is not revealed by Newtonian's Mechanics that is the dependence of the space time property of matter on the motion of matter. It explained many experimental facts that could not be explained by classical physics and included the knowledge that physics has actually reached at the turn of the 19th and 20th centuries in his theoretical system and its understanding so it has opened up the way for physics research. Einstein's work has done outstanding contributions to help shape the world in which we live today. In 1999 the American weekly Time named him The Great Man of the Century. Einstein became the symbol of the highest human wisdom of the 20th century. Nevertheless science always moves forward and never stays at the same level. In the last half century especially in the past 30 years theoretical thinking and experimental tests have revealed the difficulties and challenges of the special theory of relativity. Bohm He was an acknowledged world authority on quantum mechanics said I don't think anybody can necessarily expect everything to turn out the way he expects it. Quite a few things turned out that way for Einstein but he can't have everything right. 1 The discovery of cosmic background radiation confirms the existence of the absolute inertial reference frame. An experimental test of Bell's inequality found that Einstein was wrong. There is no doubt that there is a superluminal causal connection or influence between two entangled particles. It can be asserted that the non-locality must be an important feature of the microcosm. This opens up the way for the gestation development and establishment of the new theory.

Faster Than Light Nick Herbert, 1989-11-30 Even though most physicists believe that the speed of light is as fast as

anyone can go Einstein's theory of special relativity does not rule out faster than light FTL travel. On the contrary it seems to indicate that certain superluminal or FTL effects would permit us to re-experience the past time travel would become a reality not science fiction. Through this crack in the cosmic egg steps Herbert a Stanford physicist and author of *Quantum Reality* who summarizes clearly current speculation and theory about faster than light travel. Along with space warps black holes and tachyons hypothetical FTL particles he looks at the so-called quantum connection an alleged force said to instantaneously link any two subatomic particles long after they have bumped into each other. Free of the woolgathering that tints much writing on the new physics this brave exciting book should send scientists back to their drawing boards for the nonspecialist reader it reveals a world much stranger than Star Trek. Publishers Weekly Original challenging and audacious San Diego Magazine

Lectures on Special Relativity M. G. Bowler, 2017-06-29 The aim of the book is to provide a clear concise and self-contained discussion of both the structure of the theory of special relativity and its physical content. The point of view is that of a practising physicist who uses relativity daily relativity is a branch of physics and is regarded as being neither mathematics nor philosophy. Particular care has been taken to elucidate those difficulties conceptual rather than mathematical which invariably snare the unwary or inexperienced. The material is liberally illustrated with real examples and problems drawn from both high energy physics and from astrophysics

The Goldilocks Enigma Paul Davies, 2008-04-29 *The Goldilocks Enigma* is Paul Davies's eagerly awaited return to cosmology the successor to his critically acclaimed bestseller *The Mind of God*. Here he tackles all the big questions including the biggest of them all Why does the universe seem so well adapted for life? In his characteristically clear and elegant style Davies shows how recent scientific discoveries point to a perplexing fact many different aspects of the cosmos from the properties of the humble carbon atom to the speed of light seem tailor-made to produce life. A radical new theory says it's because our universe is just one of an infinite number of universes each one slightly different. Our universe is bio-friendly by accident we just happened to win the cosmic jackpot. While this multiverse theory is compelling it has bizarre implications such as the existence of infinite copies of each of us and Matrix-like simulated universes. And it still leaves a lot unexplained. Davies believes there's a more satisfying solution to the problem of existence the observations we make today could help shape the nature of reality in the remote past. If this is true then life and ultimately consciousness aren't just incidental byproducts of nature but central players in the evolution of the universe. Whether he's elucidating dark matter or dark energy M theory or the multiverse Davies brings the leading edge of science into sharp focus provoking us to think about the cosmos and our place within it in new and thrilling ways

Frontiers of Propulsion Science Marc G. Millis, Eric W. Davis, 2009 *Frontiers of Propulsion Science* is the first ever compilation of emerging science relevant to such notions as space drives warp drives gravity control and faster than light travel the kind of breakthroughs that would revolutionize spaceflight and enable human voyages to other star systems. Although these concepts might sound like science fiction they are appearing in growing numbers in reputable scientific

journal This is a nascent field where a variety of concepts and issues are being explored in the scientific literature beginning in about the early 1990s The collective status is still in step 1 and 2 of the scientific method with initial observations being made and initial hypotheses being formulated but a small number of approaches are already at step 4 with experiments underway This emerging science combined with the realization that rockets are fundamentally inadequate for interstellar exploration led NASA to support the Breakthrough Propulsion Physics Project from 1996 through 2002 Frontiers of Propulsion Science covers that project as well as other related work so as to provide managers scientists engineers and graduate students with enough starting material that they can comprehend the status of this research and decide if and how to pursue it in more depth themselves Five major sections are included in the book Understanding the Problem lays the groundwork for the technical details to follow Propulsion Without Rockets discusses space drives and gravity control both in general terms and with specific examples Faster Than Light Travel starts with a review of the known relativistic limits followed by the faster than light implications from both general relativity and quantum physics Energy Considerations deals with spacecraft power systems and summarizes the limits of technology based on accrued science and From This Point Forward offers suggestions for how to manage and conduct research on such visionary topics [NASA Breakthrough Propulsion Physics Workshop Proceedings](#) ,1999 [Physics of the One- and Two-electron Atoms](#) Fritz Bopp,Hans Kleinpoppen,1970 [Scientific American](#) ,1927 Monthly magazine devoted to topics of general scientific interest

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Speculations in Science and Technology ,1981 [**Journal of the Optical Society of America**](#) ,2004 [**Science**](#)
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