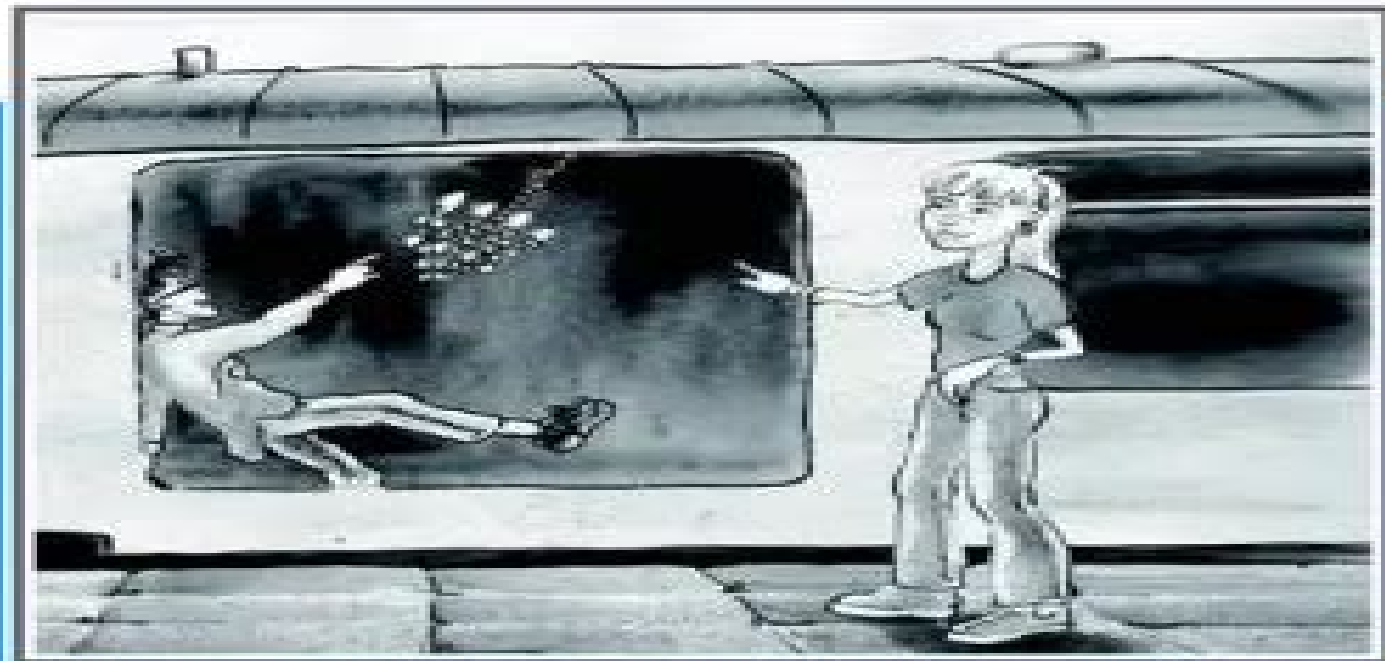


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# **Special Relativity & Motions faster than Light**

Beginners's Guide



WILEY-VCH

# Special Relativity And Motion Faster Than Light

**CO Houle**



## **Special Relativity And Motion Faster Than Light:**

**Special Relativity and Motions Faster than Light** Moses Fayngold, 2008-09-08 While the theory of special relativity is often associated with the idea of traveling faster than light this book shows that in all these cases subtle forces of nature conspire to prevent these motions being harnessed to send signals faster than the speed of light The author tackles these topics both conceptually with minimal or no mathematics and quantitatively making use of numerous illustrations to clarify the discussion The result is a joy to read for both scientists familiar with the subject and laypeople wishing to understand something of special relativity *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 Physics and Partial Differential Equations Tatsien Li, Tiehu Qin, 2014-04-18 Physics and Partial Differential Equations Volume II proceeds directly from Volume I SIAM 2012 with five additional chapters that bridge physics and applied mathematics in a manner that is easily accessible to readers with an undergraduate level background in these disciplines Readers who are more familiar with mathematics than physics will discover the connection between various physical and mechanical disciplines and their related mathematical models which are described by partial differential equations PDEs The authors establish the fundamental equations for fields such as electrodynamics fluid dynamics magnetohydrodynamics and reacting fluid dynamics elastic thermoelastic and viscoelastic mechanics the kinetic theory of gases special relativity and quantum mechanics Readers who are more familiar with physics than mathematics will benefit from in depth explanations of how PDEs work as effective mathematical tools to more clearly express and present the basic concepts of physics The book describes the mathematical structures and features of these PDEs including the types and basic characteristics of the equations the behavior of the solutions and some commonly used approaches to solving PDEs Each chapter can be read independently and includes exercises and references *Faster than Light* Robert J. Nemiroff, 2023-09-09 Albert Einstein knew already in the early 1900s when he first published his famous paper about the constancy of the speed of light that not only did this constancy imply that mass contains energy  $E = mc^2$  but that faster than light motion could lead to paradoxes some that seemed to involve backwards time travel What are these paradoxes Why is light and its speed relevant This book will lead you through an obstacle course of conundrums and oddities building up your understanding of how light's speed creates simple but mind expanding paradoxes one conceptual riddle at a time This is not your average popular science book This is also not a textbook This book takes one theme the universally constant speed of light and shows how it may appear compromised on scales from the quantum mechanics of the very small to the cosmology of the very large and the resulting surprising implications can result Book Review 1 Imagine embarking on a journey to comprehend the physics of the entire universe with a guide who's not only an expert but makes the concepts digestible and entertaining Robert J Nemiroff offers such a journey in *Faster Than Light* a

book that initially describes the speed of light then touches on subjects as esoteric as time travel using the theory of relativity and speculation on how to send information back in time among other subjects

blue ink Book Review 2 takes readers on a wild ride through the ins and outs of the speed of light in this mind bending guide His primary approach is through a series of humorous thought experiments explanations are clear and concise and most of them require only logic to sort out making the book more accessible than similar titles

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**The Blue Streak** Alexander Rein, 2007-01-29 The hacker's approach to Special Relativity grew out of an attempt to demystify the puzzling features of the theory to intelligent but intuition blocked lay persons by a strategy aimed at this particular handicap The insufficiently understood basic concepts the most obstinate stumbling blocks are explained at length first The four dimensional cornerstone of the theory the all important Invariant is presented as a geometric structure analogous to the Diagonal of a box like Frame of Reference to which Time is subsequently added as the Fourth Dimension The exposition of the theory of Special Relativity is primarily intuition oriented while remaining also geometrically conceptualized and mathematically developed It is built up from scratch around First Principles starting out with our primitive notions of Space Time and Motion which are then continually updated and refined The conceptual tools and terminology for investigating Linear Motion at Uniform Velocity are provided in a step by step fashion and always visualized by suitable illustrations The Spacetime terrain curved but not spherical and its domains Past Present and Future are defined mapped and explained The standard topics of Special Relativity are individually elaborated in the already introduced step by step fashion and its mathematical results the equations are not just displayed in print as usually done in undergraduate textbooks but are actually derived from familiar situations using only elementary algebra the simplest possible math for the task These derivations are additionally written out fully in longhand for the benefit of those still inexperienced or whose math has all gone to rust The Theory of Relativity is covered in sufficient detail to make this book an optional supplement in a college level physics course It can also serve as a source of information and insight in high school and adult science clubs but above all it was meant to be a self study manual a virtual class room at home a do it yourself tutoring aid Besides standard fare two speculative topics are included 1 a Faster than Light chapter dealing with its chief reputed consequence the reversal of Time Arrow once the travel speed has crashed the Light Barrier and 2 a tentative description of a very very fast moving object caught by our wide open eyes or by a super fast shutter speed camera The book and its intended readership are described in the Preface Basic concepts and a brief historical background of the theory are given in the Introduction In Chapters I XV you'll find the main topics and in the Postscript there are additional comments pertinent to but reaching above and beyond the contents of this book

*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

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 novel 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

journals 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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John Michels,1927 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt,1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt s text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics

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