

Moses Fayngold

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# Special Relativity

*and Motions Faster than Light*



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# Special Relativity And Motions Faster Than Light

**Dave Goldberg**



## **Special Relativity And Motions 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

**Special Relativity and How it Works** Moses Fayngold, 2008-07-21 Based on his successful work *Special Relativity and Motions Faster than Light* Moses Fayngold has written a thorough presentation of the special theory of relativity The unique feature of the textbook is its two leveled structure helping students to master the material more effectively the first level presents a qualitative discussion of a problem while the second one contains its rigorous treatment Fayngold points out the connection between fundamental principles and known phenomena In three new chapters on Relativity at Work Electromagnetism Optics Quantum Mechanics he not only shows what relativity is but also how it works The scope of new material extends to include a chapter on Causality and on Applied Relativity including astrophysical and accelerator topics Backed throughout by numerous examples and exercises

**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 The Complete Set bridges physics and applied mathematics in a manner that is easily accessible to readers with an undergraduate level background in these disciplines Each volume is also sold individually 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 solutions and some commonly used approaches to solving PDEs

*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 [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** 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  $E = mc^2$

c squared 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 Booklife Book Review 3 A fresh and joyous ride through the mind bending puzzles at the heart of nature's most fundamental speed that remind us that the universe is strange beyond belief Caleb Scharf Author *The Ascent of Information* Book Review 4 Better than a new particle collider Sabine Hossenfelder Author *Existential Physics*

**Hunting the Faster than Light Tachyon, and Finding Three Unicorns and a Herd of Elephants** Robert Ehrlich, 2022-05-18 In 1905 Albert Einstein declared speeds greater than light to be impossible This book describes the author's decades long search for the hypothetical subatomic particles known as tachyons that violate this principle This book is a scientific detective story The crime is speeding that is the possible breaking of the cosmic speed limit namely the speed of light as stipulated by Einstein This detective story is also a memoir written by a member of a band of tachyon hunters The author's pursuit of tachyons has been met with skepticism from most physicists who note correctly that no such superluminal particles have ever been surely observed and that there have been many false sightings Nevertheless considerable circumstantial evidence for tachyons has already been published and an ongoing experiment could decide the issue in the next few years This book is written for the general reader containing humor and eliminating jargon whenever possible and will also be of interest to scientists The hunt for the tachyon will fascinate all readers who approach the study of physics with curious and open minds *Quantum Collapse Energy Theory* Mark Brooke, *Cascading Quantum Collapse Energy Theory* bridges the gap between quantum mechanics general relativity and cosmology and provides the basis for the energy and information transfer that will power the future It reshapes our fundamental understanding of quantum mechanics space time and cosmological evolution offering a unified framework that links the microscopic quantum world with the macroscopic structure of the universe While the energy released during a single quantum collapse is incredibly small the

cumulative effect of countless collapses occurring across the universe over billions of years could significantly contribute to the vacuum energy density of space The theoretical formula of Cascading Quantum Collapse Energy provided in this book demonstrates how this continuous injection of energy could potentially account for the mysterious force behind Dark Energy the unseen driver of the universe s accelerating expansion ascading QCE as a New and Limitless Energy Source Cascading QCE Theory introduces a pioneering view of quantum collapse energy as both an energy and information transmission medium This theory suggests that the universe is not only interconnected through a quantum web of cascading energy but that this web serves as the underlying structure for energy information and potentially for future quantum based transmission systems The QCE Magnified Energy Transmission System provides both unlimited power as well as instantaneous Quantum Information Transfer across the quantum medium and into deep space Brooke s QCE Slipstream Warp Drive represents an groundbreaking advancement in propulsion technology utilizing Quantum Collapse Energy QCE to create a directional slipstream through space time forming a self sustaining Quantum Bubble around a spacecraft Unlike traditional warp drive concepts that require exotic matter or negative energy Brooke s QCE Slipstream Warp Drive manipulates quantum fluctuations in space time to generate an asymmetric energy gradient allowing for continuous motion without the need for reactionary thrust In redefining space time as an emergent quantum phenomenon this theory not only reshapes our understanding of the cosmos but also lays the foundation for the next era of human exploration and discovery

*Special Relativity and Classical Field Theory* Leonard Susskind,Art Friedman,2017-09-26 The third volume in the bestselling physics series cracks open Einstein s special relativity and field theory Physicist Leonard Susskind and data engineer Art Friedman are back This time they introduce readers to Einstein s special relativity and Maxwell s classical field theory Using their typical brand of real math enlightening drawings and humor Susskind and Friedman walk us through the complexities of waves forces and particles by exploring special relativity and electromagnetism It s a must read for both devotees of the series and any armchair physicist who wants to improve their knowledge of physics deepest truths **Time Now: The True Nature of Reality** Colin Gillespie,2025-09-16 Time Now will change the way you think about reality Physicist and author Colin Gillespie brings together centuries of ancient thought and modern insights to unearth what is real and what is not He tells the story of our universe from the very beginning before the Big Bang and reveals to us a whole new view of time Gillespie writes with humor and gives deft explanations of complex concepts He helps us find the inner truths about the universe and about ourselves And he does it in a way that is accessible inspiring and entertaining **A Holistic Story of Space and Time** David Pearcey ,2023-06-28 Have you ever wondered how the space and time of our everyday lives works and why David Pearcey is here to help with A Holistic Story of Space and Time a thorough exploration through our world of space and time Explaining how space and time works as a complete system the book is helped by brief accounts of the contributions of some of the great scientists and philosophers who helped us understand its components Intended for the

general reader who has no previous technical understanding A Holistic Story of Space and Time delves into several areas the types of geometries of space the motion of matter in space and how the force fields of matter pervade space as well as how we perceive space and time by treating the brain as an information management system It shows how the process of perception allows us to determine the true nature of the geometry of the space and time of the real world Much more is also looked into in detail such as Einstein's special and general theories of relativity including his unified field theory electromagnetism and quantum physics including charts and diagrams to explain some of the concepts involved The final part of the book investigates the relationship between us who perceive the real world and the space and time of the real world using the ideas developed by the philosophers Kant and Schopenhauer This all combines to give the reader a uniquely broad look into our world and explains how it works as a total entity from the cosmic world of the curved geometry of general relativity to the mysterious quantum world and then the philosophical aspects of how we are part of it Anyone with an interest in the way things work will be well suited to this extraordinary book that answers the why as well as the what and how

**Faster Than Light** H. David Froning, Jr., 2019-11-12 An amazing book on faster than light flight H David Froning a 30 year veteran engineer who worked on several designs for future space travel propulsion gives us this exceptional compilation of his discoveries struggles and experiences in the realm of faster than light space travel Central to the concept of faster than light travel is that the vacuum of space itself the spacetime metric can be utilized in propulsion systems Engineering the vacuum as this is called involves discovering how space can be altered to provide energy thrust for future spacecraft Packed with diagrams some of which show how as a starship accelerates away from Earth it disappears and reappears in only seconds But during these seconds of disappearance the ship in effect leaps high above space time and over stupendous distances to reach speeds that are billions of times greater than light speed Lots of great material on quantum vacuum power anti gravity propulsion effects the velocity of light in spacetime altered regions effective mass in spacetime altered regions warp drives and tons more

The Universe in the Rearview Mirror Dave Goldberg, 2013-07-11 A great read Goldberg is an excellent guide Mario Livio bestselling author of The Golden Ratio Physicist Dave Goldberg speeds across space time and everything in between showing that our elegant universe from the Higgs boson to antimatter to the most massive group of galaxies is shaped by hidden symmetries that have driven all our recent discoveries about the universe and all the ones to come Why is the sky dark at night If there is anti matter can there be anti people Why are past present and future our only options Saluting the brilliant but unsung female mathematician Emmy Noether as well as other giants of physics Goldberg answers these questions and more exuberantly demonstrating that symmetry is the big idea and the key to what lies ahead

*Non-Euclidean Geometries* András Prékopa, Emil Molnár, 2006-06-03 From nothing I have created a new different world wrote János Bolyai to his father Wolfgang Bolyai on November 3 1823 to let him know his discovery of non Euclidean geometry as we call it today The results of Bolyai and the co discoverer the Russian Lobachevskii changed the

course of mathematics opened the way for modern physical theories of the twentieth century and had an impact on the history of human culture The papers in this volume which commemorates the 200th anniversary of the birth of J nos Bolyai were written by leading scientists of non Euclidean geometry its history and its applications Some of the papers present new discoveries about the life and works of J nos Bolyai and the history of non Euclidean geometry others deal with geometrical axiomatics polyhedra fractals hyperbolic Riemannian and discrete geometry tilings visualization and applications in physics

**Future Communication Technology and Engineering** Kennis Chan,2015-04-06 This volume contains the papers presented at the 2014 International Conference on Future Communication Technology and Engineering FCTE2014 taking place in Shenzhen China from 16 17 November 2014 Communication technologies are developing quickly and there are more possibilities for future communication technologies provided by the achievements made rather than limitations At the convention innovative and inspiring ideas were presented certain controversial topics were discussed e g what are the most efficient convenient methods for information communication and what is the most probable prospect for future communication technology It is difficult to make any definite conclusions from these presentations and discussions but the desire and drive for improvement and development shown by the participants authors are surely remarkable and respectable In this book 70 papers are included chosen from hundreds of submissions contributed by scientists from various countries and regions after careful reading and discussing by a team of reviewers These papers cover almost every possible aspect of communication technology including communication systems automation and control engineering electrical engineering AI algorithms signal processing data mining and knowledge based systems Discovering the Essential Universe, Second Edition Neil F. Comins,2003-03-31 A new edition of Freeman s briefest astronomy text providing just the essentials at a student friendly price **PGT Physics Question Bank Chapterwise - for PGT Teachers** Mocktime Publication, PGT Physics Question Bank Chapterwise for PGT Teachers

**19th Natural Philosophy Alliance Proceedings** Greg Volk,2012-07-14 The Natural Philosophy Alliance NPA sponsors regular international conferences for presenting high quality papers discussing aspects of philosophy in the sciences Many papers offer challenges to accepted orthodoxy in the sciences especially in physics Everything from the micro physics of quantum mechanics to the macro physics of cosmology is entertained Though the main interest of the NPA is in challenging orthodoxy in the sciences it will also feature papers defending such orthodoxy Our ultimate propose is to enable participants to articulate their own understanding of the truth All papers are reviewed by society officers and sometimes by other members before presentation in conferences and they are edit sometimes very significantly prior to publication in the Proceedings of the NPA Existential Physics Sabine Hossenfelder,2022-08-09 A NEW YORK TIMES BESTSELLER An informed and entertaining guide to what science can and cannot tell us The Wall Street Journal Stimulating encourage s readers to push past well trod assumptions and have fun doing so Science Magazine From renowned physicist and creator of the YouTube series Science without the Gobbledygook a



book that takes a no nonsense approach to life s biggest questions and wrestles with what physics really says about the human condition Not only can we not currently explain the origin of the universe it is questionable we will ever be able to explain it The notion that there are universes within particles or that particles are conscious is ascientific as is the hypothesis that our universe is a computer simulation On the other hand the idea that the universe itself is conscious is difficult to rule out entirely According to Sabine Hossenfelder it is not a coincidence that quantum entanglement and vacuum energy have become the go to explanations of alternative healers or that people believe their deceased grandmother is still alive because of quantum mechanics Science and religion have the same roots and they still tackle some of the same questions Where do we come from Where do we go to How much can we know The area of science that is closest to answering these questions is physics Over the last century physicists have learned a lot about which spiritual ideas are still compatible with the laws of nature Not always though have they stayed on the scientific side of the debate In this lively thought provoking book Hossenfelder takes on the biggest questions in physics Does the past still exist Do particles think Was the universe made for us Has physics ruled out free will Will we ever have a theory of everything She lays out how far physicists are on the way to answering these questions where the current limits are and what questions might well remain unanswerable forever Her book offers a no nonsense yet entertaining take on some of the toughest riddles in existence and will give the reader a solid grasp on what we know and what we don t know

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