

# Faster Than The Speed Of Light Story A Scientific Speculation Joao Magueijo

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[You Made Me Love You](#) - John Edgar Wideman 2021-04-06

A powerful and “stunning” (Publishers Weekly, starred review) selection of the best of John Edgar Wideman’s short stories over his fifty-year career, representing the wide range of his intellectual and artistic pursuits. When John Edgar Wideman won the PEN Malamud Award in 2019, he joined a list of esteemed writers—from Eudora Welty to George Saunders—all of whom are acknowledged masters of the short story. Wideman’s commitment to short fiction has been lifelong, and here he gathers a representative selection from throughout his career, stories that “have a wary, brooding spirit, a lonely intelligence...[and] air the problem of consciousness, including the fragile contingency of our existence” (The New York Times). Wideman’s stories are grounded in the streets and the people of Homewood, the Pittsburgh neighborhood of his childhood, but they range far beyond there, to the small western towns of Wyoming and historic Philadelphia, the contemporary world and the ancient past. He explores the interior lives of his characters, and the external pressures that shape them. These stories are as intellectually intricate as they are rich with the language and character. “Wideman has been compared to William Faulkner and James Baldwin...[these] prove that he is every bit as masterful a cartographer of the American spirit as his forebears” (Esquire). Comprised of thirty-five stories drawn from past collections (American Histories, Briefs, God’s Gym, All Stories Are True, Fever, and Damballah), and an introductory essay by the National Book Critics Circle board member and scholar Walton Muyumba, this volume of Wideman’s selected stories celebrates the lifelong significance of this major American writer’s essential contribution to a form—illuminating the ways that he has made it his own. “If there were any doubts Wideman belongs to the American canon, this puts them to bed” (Publishers Weekly, starred review).

[A Brilliant Darkness](#) - Joao Magueijo 2009-11-24

On the night of March 26, 1938, nuclear physicist Ettore Majorana boarded a ship, cash and passport in hand. He was never seen again. In *A Brilliant Darkness*, theoretical physicist João Magueijo tells the story of Majorana and his research group, “the Via Panisperna Boys,” who discovered atomic fission in 1934. As Majorana, the most brilliant of the group, began to realize the implications of what they had found, he became increasingly unstable. Did he commit suicide that night in Palermo? Was he kidnapped? Did he stage his own death? *A Brilliant Darkness* chronicles Majorana’s invaluable contributions to science—including his major discovery, the Majorana neutrino—while revealing the truth behind his fascinating and tragic life.

[The Collaborative Era in Science](#) - Caroline S. Wagner 2018-10-25

In recent years a global network of science has emerged as a result of thousands of individual scientists seeking to collaborate with colleagues around the world, creating a network which rises above national systems. The globalization of science is part of the underlying shift in knowledge creation generally: the collaborative era in science. Over the past decade, the growth in the amount of knowledge and the speed at which it is available has created a fundamental shift—where data, information, and knowledge were once scarce resources, they are now abundantly available. Collaboration, openness, customer- or problem-focused research and development, altruism, and reciprocity are notable features of abundance, and they create challenges that economists have not yet studied. This book defines the collaborative era, describes how it came to be, reveals its internal dynamics, and demonstrates how real-world practitioners are changing to take advantage of it. Most importantly, the book lays out a guide for policymakers and entrepreneurs as they shift perspectives to take advantage of the collaborative era in order to create social and economic welfare.

[All Stories Are True](#) - Tracie Church Guzzio 2011-05-17

In *All Stories Are True*, Tracie Church Guzzio provides the first full-length study of John Edgar Wideman’s entire oeuvre to date. Specifically, Guzzio examines the ways in which Wideman (b. 1941) engages with three crucial themes—history, myth, and trauma—throughout his career, showing how they intertwine. Guzzio argues that, for four decades, the influential African American writer has endeavored to create a version of the African American experience that runs counter to mainstream interpretations, using history and myth to confront and then heal the trauma caused by slavery and racism. Wideman’s work intentionally blurs boundaries between fiction and autobiography, myth and history, particularly as that history relates to African American experience in his hometown of Pittsburgh, Pennsylvania. The fusion of fiction, national history, and Wideman’s personal life is characteristic of his style, which—due to its complexity and smudging of genre distinctions—has presented analytic difficulties for literary scholars. Despite winning the PEN/Faulkner award twice, for *Sent for You Yesterday* (1984) and *Philadelphia Fire* (1990), Wideman remains under-studied. Of particular value is Guzzio’s analysis of the many ways in which Wideman alludes to his previous works. This intertextuality allows Wideman to engage his books in direct, intentional dialogue with each other through repeated characters, images, folktales, and songs. In Wideman’s challenging of a monolithic view of history and presenting alternative perspectives to it, and his allowing past, present, and future time to remain fluid in the narratives, Guzzio finds an author firm in his notion that all stories and all perspectives have merit.

[Slow Light](#) - Sidney Perkowitz 2011-07-26

*Slow Light* is a popular treatment of today’s astonishing breakthroughs in the science of light. Even though we don’t understand light’s quantum mysteries, we can slow it to a stop and speed it up beyond its Einsteinian speed limit, 186,000 miles/sec; use it for quantum telecommunications; teleport it; manipulate it to create invisibility; and perhaps generate hydrogen fusion power with it. All this is lucidly presented for non-scientists who wonder about teleportation, Harry Potter invisibility cloaks, and other fantastic outcomes. *Slow Light* shows how the real science and the fantasy inspire each other, and projects light’s incredible future. Emory physicist Sidney Perkowitz discusses how we are harnessing the mysteries of light into technologies like lasers and fiber optics that are transforming our daily lives. Science-fiction fantasies like Harry Potter’s invisibility cloak are turning into real possibilities. Please click here for more info. Contents: What is Light? The Mystery Continues Why is Light so Fast? Can Anything Go Even Faster? Slow, Stopped, Fast, and Backwards Light Extreme and Entangled Light Invisibility Light Fantasy to Light Reality Readership: For physics enthusiasts all over the world.

Keywords: Light; Invisibility; Teleportation; Entanglement; Slow Light; Fast Light; Backwards Light; Laser; Laser Fusion; Quantum; Quantum Computing; Quantum Cryptography; Relativity; Faster Than Light Travel; Science Fiction; Star Trek; Cloaking Device; Invisible Man Key Features: *Slow Light* is unique in bringing together different aspects of contemporary light science and technology, and presenting them at a popular level. No other title covers all these areas. *Slow light* and invisibility in particular have not been presented at length in popular books. The book will appeal to both science fans and science fiction fans, for it weaves real science together with fictional science. It presents both ongoing research and classic and modern science fiction, from H G Wells’ “The Invisible Man” through “Star Trek” to contemporary films and television series. The author brings expertise in light gained from his own laboratory research, and is also known as a skilled and clear

expositor of science for non-scientists. His earlier "Empire of Light", about science and art, gained critical acclaim and has been translated into several languages. His "Digital People" and "Hollywood Science" have also established him as a lecturer and media figure who explores the relations between science and science fiction. Reviews: "This excellent little book tells of the truly marvelous properties of light that have been revealed in the last half century or so. Highly recommended." Choice "With an elegant and clear style, Perkowitz takes the reader through the reality of these remarkable phenomena, including the strange quantum effects related to entanglement. Here is an author who is keen to show that what we know is already amazing, without having to pour over the purely hypothetical." CERN Courier

Time for the Stars - Robert A. Heinlein 2007-03-06

Originally published for a young adult audience in the 1950s, a classic Heinlein tale depicts a future world where overpopulation has necessitated travel to other planets in spite of limited communications technology, a challenge for which identical twins Tom and Pat are enlisted for a human telepathy project. Reprint. 15,000 first printing.

Popular Science - 2001-05

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Hunting the Faster than Light Tachyon, and Finding Three Unicorns and a Herd of Elephants - Robert Ehrlich 2022-05-19

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.

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

Lightspeed - John C. H. Spence 2019-10-14

This is the human story and adventures of the great scientists who measured the speed of light -- which takes eight minutes to get here from the sun, so that when we look at the stars we are looking back in time. The book narrates how, since the ancient Greeks, scientists from Faraday, Maxwell, Fizeau and Michelson struggled to understand how light can travel through the vacuum of outer space, unless it is filled with a ghostly invisible vortex Aether foam. The reader moves from Galileo's observations of the eclipses of Jupiter's moon for navigation, to Einstein's theories and his equation  $E = mc^2$ , and all the quantum weirdness which followed. Space probes, the Transit of Venus expeditions, the discovery of radio, optics and satellite navigation, and the amazing scientific instruments built to detect the Aether wind are described.

Trading at the Speed of Light - Donald MacKenzie 2021-05-25

"Trading at the Speed of Light tells the story of how many of our most important financial markets have transformed from physical trading floors on which human beings trade face-to-face, into electronic systems

within which computer algorithms trade with each other. Tracing the emergence of ultrafast, automated, high-frequency trading (HFT) since the early 2000s, Donald MacKenzie draws particular attention to the importance of what he deems the 'material political economy' of twenty-first century finance. Fast transmission of price data used to involve fibre-optic cables, but the strands in such cables are made of materials (usually a specialised form of glass) which slow light down to around two-thirds of its speed in free space. By contrast, microwave and other wireless signals used in HFT travel through the atmosphere at nearly full light speed. At these nanosecond speeds, the physical nature of information transmission and the precise spatial location of the equipment involved become hugely important, thus creating inevitable pinch points in the system. MacKenzie details the ways in which these pinch points - individual frequency bands, specific locations on the roofs of computer data centres, and particular sites for microwave towers - are especially advantageous, making it possible for those who control them to profit from that control. The book draws from over 300 interviews conducted with high-frequency traders around the world, the people who supply them with technological systems and communication links, exchange staff and regulators, as well as with others who function within markets that have not yet become dominated by HFT. MacKenzie focuses most closely upon the four main sites of international HFT - Chicago, New York, Amsterdam, and London - and examines both the technology and the politics underpinning modern financial markets"--

To Sleep in a Sea of Stars - Christopher Paolini 2020-09-15

Now a New York Times and USA Today bestseller! Winner of Best Science Fiction in the 2020 Goodreads Choice Awards! To Sleep in a Sea of Stars is a brand new epic novel from #1 New York Times bestselling author of Eragon, Christopher Paolini. Kira Navárez dreamed of life on new worlds. Now she's awakened a nightmare. During a routine survey mission on an uncolonized planet, Kira finds an alien relic. At first she's delighted, but elation turns to terror when the ancient dust around her begins to move. As war erupts among the stars, Kira is launched into a galaxy-spanning odyssey of discovery and transformation. First contact isn't at all what she imagined, and events push her to the very limits of what it means to be human. While Kira faces her own horrors, Earth and its colonies stand upon the brink of annihilation. Now, Kira might be humanity's greatest and final hope . . . At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

The Oma Sagas: The Return - Rob Vadurro 2011

The Oma are a gentle, intelligent clan of the early Pleistocene era who have discovered a system of manipulating organic material to cut, combine, grow, shrink and mutate plant and animal tissues into whatever form is desired. Flight becomes their most enticing goal. Eventually, they develop a craft large enough they can all live within. The body of this vessel is based on a cicada. They configure it to include a respiration system, food producers, waste treatment, photosynthesis energy gatherers and a propulsion system capable of near light speed in the vacuum of space. Threatened by extinction from a large tribe of mythically obsessed fanatics, the Oma escape into the sky and soon discover the stars naked in the eternal night of space. Their legends tell them that the stars are the souls of their departed loved ones, and they embark on a voyage to see if this is so. They travel for forty years to the center of the Galaxy and back, through globular clusters, open gobs of stars, gaseous nebulae, the giant black hole at the Galaxy's center and even a visit to a young earthlike planet. Recording their voyage on chameleon skins, they retrace their journey back to Earth of the present day, now 114,000 years in their future. Come join them as they discover humanity in the 21st century future.--

Faster Than the Speed of Light - João Magueijo 2004

A brilliant young physicist puts forth the heretical idea that light once traveled faster, in the very early days of the universe--an idea that may dethrone Einstein and forever change humankind's understanding of the universe.

Cosmic Horizons - Steven Soter 2001

Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaetre. Original.

The Secret Life of Uri Geller - Jonathan Margolis 2017-02-21

New Biography Shows Celebrity Spoon Bender, Uri Geller, Secretly Worked for U.S. Intelligence Agencies This authorized biography of Uri

Geller tells his life story and explores recent claims about his clandestine work with the CIA and the Israeli intelligence agency, the Mossad, during and after the Cold War. Geller is best-known for his Vegas-style act where he bends spoons, describes hidden drawings, and performs other paranormal feats. Technology journalist and former Time magazine correspondent, Jonathan Margolis, worked alongside Geller and Oscar-winning filmmaker Vikram Jayanti on the book, to be published October 15th. Jayanti debuted a documentary at the Sheffield (UK) Film Festival commissioned by the BBC and entitled, *The Secret Life of Uri Geller: Psychic Spy?* Jayanti directed the Muhammad Ali documentary, *When We Were Kings*. "Now there is the internet and the NSA's ability to monitor massive amounts of chatter around the world," says Margolis. "40 years ago, however, intelligence agencies needed to explore way-out ways of monitoring the bad guys. The people I interviewed on-the-record for the book were adamant that Uri Geller wasn't only able to gather secret information remotely and perform other espionage tasks, but was extremely good at it." Throughout his career, Uri Geller has courted controversy. He is known globally as an entertainer and friend of pop star, Michael Jackson, who was best man at the renewal of Geller's wedding vows. He also made millions as a psychic adviser to the oil industry, but as a paranormalist was humiliated in a 1974 appearance on 'The Tonight Show' with Johnny Carson. And yet there are photographs from 1987 of Geller together with Al Gore, Yuli M. Vorontsov, First Deputy Foreign Minister of the Soviet Union, and several other high ranking US officials at nuclear arms limitation talks between the U.S. and the Soviet Union. What was Geller doing in these pictures? Margolis brings proof that Geller was there at the invitation of the chairman of the Senate Foreign Relations committee to influence Vorontsov's to sign the treaty. There is also new testimony from a living senior former CIA official and others who worked for the Agency confirming that Geller was exhaustively laboratory tested on behalf of the CIA, and was used as an intelligence asset of the CIA and Defense Intelligence Agency - and that under President Carter's presidency, using psychics in intelligence matters was known about and accepted at the White House. Michael Mann, publisher at large for Watkins, said: "Uri is world-famous for mind reading and spoon bending but his work with the CIA and Mossad during the 60s and 70s as well as, it seems, in post 9/11 times, has until now remained secret. *The Secret Life of Uri Geller* tells the real story of his extraordinary life and his alleged continuing undercover work for the West's major spy agencies."

**Time Machines** - Paul J. Nahin 2001-04-20

This book explores the idea of time travel from the first account in English literature to the latest theories of physicists such as Kip Thorne and Igor Novikov. This very readable work covers a variety of topics including: the history of time travel in fiction; the fundamental scientific concepts of time, spacetime, and the fourth dimension; the speculations of Einstein, Richard Feynman, Kurt Goedel, and others; time travel paradoxes, and much more.

**Particle Accelerators, Colliders, and the Story of High Energy Physics** - Raghavan Jayakumar 2011-10-27

This book takes the readers through the science behind particle accelerators, colliders and detectors: the physics principles that each stage of the development of particle accelerators helped to reveal, and the particles they helped to discover. The book culminates with a description of the Large Hadron Collider, one of the world's largest and most complex machines operating in a 27-km circumference tunnel near Geneva. The book provides the material honestly without misrepresenting the science for the sake of excitement or glossing over difficult notions. The principles behind each type of accelerator is made accessible to the undergraduate student and even to a lay reader with cartoons, illustrations and metaphors. Simultaneously, the book also caters to different levels of reader's background and provides additional materials for the more interested or diligent reader.

**Life at the Speed of Light** - J. Craig Venter 2014-09-30

"Venter instills awe for biology as it is, and as it might become in our hands." —Publishers Weekly On May 20, 2010, headlines around the world announced one of the most extraordinary accomplishments in modern science: the creation of the world's first synthetic lifeform. In *Life at the Speed of Light*, scientist J. Craig Venter, best known for sequencing the human genome, shares the dramatic account of how he led a team of researchers in this pioneering effort in synthetic genomics—and how that work will have a profound impact on our existence in the years to come. This is a fascinating and authoritative study that provides readers an opportunity to ponder afresh the age-old question "What is life?" at the dawn of a new era of biological

engineering.

**Let There Be Light: The Story Of Light From Atoms To Galaxies** - Alex Montwill 2008-09-29

This book is the first of its kind to devote itself at this level to the key role played by light and electromagnetic radiation in the universe. Readers are introduced to philosophical hypotheses such as the economy, symmetry, and universality of natural laws, and are then guided to practical consequences such as the rules of geometrical optics and even Einstein's well-known but mysterious relationship,  $E = mc^2$ . Most chapters feature a pen picture of the life and character of a relevant scientific figure. These "Historical Interludes" include, among others, Galileo's conflicts with the Inquisition, Fourier's taunting of the guillotine, Neils Bohr and World War II, and the unique character of Richard Feynman. Going one step beyond the popular level, this easy-to-read book gives an overall view to undergraduate and postgraduate physics students that is often missing when trying to assimilate the technical details of their courses. Through its original treatment of topics and enjoyable style of writing, it will also stimulate keen interest in general readers who are interested in science and have a basic mathematics background as well as teachers looking for basic and accurate background information./a

**Faster Than the Speed of Light** - Joao Magueijo 2006-10

*The Science of Interstellar* - Kip Thorne 2014-11-07

A journey through the otherworldly science behind Christopher Nolan's award-winning film, *Interstellar*, from executive producer and Nobel Prize-winning physicist Kip Thorne. *Interstellar*, from acclaimed filmmaker Christopher Nolan, takes us on a fantastic voyage far beyond our solar system. Yet in *The Science of Interstellar*, Kip Thorne, the Nobel prize-winning physicist who assisted Nolan on the scientific aspects of *Interstellar*, shows us that the movie's jaw-dropping events and stunning, never-before-attempted visuals are grounded in real science. Thorne shares his experiences working as the science adviser on the film and then moves on to the science itself. In chapters on wormholes, black holes, interstellar travel, and much more, Thorne's scientific insights—many of them triggered during the actual scripting and shooting of *Interstellar*—describe the physical laws that govern our universe and the truly astounding phenomena that those laws make possible. *Interstellar* and all related characters and elements are trademarks of and © Warner Bros. Entertainment Inc. (s14).

**Special Relativity and Motions Faster Than Light** - Moses Fayngold 2002-10-11

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.

**Current Controversies in Metaphysics** - Elizabeth Barnes 2016-12-08

This book showcases a range of views on topics at the forefront of current controversies in the field of metaphysics. It will give readers a varied and alive introduction to the field, and cover such key issues as: modality, fundamentality, composition, the object/property distinction, and indeterminacy. The contributors include some of the most important philosophers currently writing on these issues. The questions and philosophers are: Are there any individuals at the fundamental level? / (1) Shamik Dasgupta (2) Jason Turner Is there an objective difference between essential and accidental properties? / (1) Meghan Sullivan (2) Kris McDaniel and Steve Steward Are there any worldly states of affairs? / (1) Daniel Nolan (2) Joseph Melia Are there any intermediate states of affairs? / (1) Jessica Wilson (2) Elizabeth Barnes and Ross Cameron Do ordinary objects exist? / (1) Trenton Merricks (2) Helen Beebe Editor Elizabeth Barnes guides readers through these controversies (all published here for the first time), with a synthetic introduction and succinct abstracts of each debate.

*The Cosmic Breath* - Amos Yong 2012-05-10

The interjection of pneumatology in both theologies of interreligious dialogue and in the theology-and-science conversation comes together in this volume. The resulting Christianity-Buddhism-science triologue opens up to new pneumatological perspectives on philosophical cosmology and anthropology in interdisciplinary and global context.

**Time Travel** - Paul J. Nahin 2011-04-01

If you ever wanted to set up the latest and greatest grandfather paradox—or just wanted to know if the time-bending events in the latest pulp you read could ever happen—then this book is for you.

**Faster Than Light** - Nick Herbert 1988

Discusses the connection between quantum physics and the theory of relativity, and assesses the implications of faster-than-light travel  
*What's Faster Than a Speeding Cheetah?* - Robert E. Wells 1997-01-01  
What's faster than a cheetah?—no animal on earth can run faster. But a peregrine falcon can swoop faster than a cheetah can run. And the falcon can't compare to an airplane, a rocket, or the speed of light. Lively text and watercolors will make children laugh while they learn all about speed.

*Project Hail Mary* - Andy Weir 2021-05-04

#1 NEW YORK TIMES BESTSELLER • From the author of *The Martian*, a lone astronaut must save the earth from disaster in this “propulsive” (Entertainment Weekly), cinematic thriller full of suspense, humor, and fascinating science—in development as a major motion picture starring Ryan Gosling. HUGO AWARD FINALIST • ONE OF THE YEAR'S BEST BOOKS: Bill Gates, GatesNotes, New York Public Library, Parade, Newsweek, Polygon, Shelf Awareness, She Reads, Kirkus Reviews, Library Journal • “An epic story of redemption, discovery and cool speculative sci-fi.”—USA Today “If you loved *The Martian*, you'll go crazy for Weir's latest.”—The Washington Post Ryland Grace is the sole survivor on a desperate, last-chance mission—and if he fails, humanity and the earth itself will perish. Except that right now, he doesn't know that. He can't even remember his own name, let alone the nature of his assignment or how to complete it. All he knows is that he's been asleep for a very, very long time. And he's just been awakened to find himself millions of miles from home, with nothing but two corpses for company. His crewmates dead, his memories fuzzily returning, Ryland realizes that an impossible task now confronts him. Hurtling through space on this tiny ship, it's up to him to puzzle out an impossible scientific mystery—and conquer an extinction-level threat to our species. And with the clock ticking down and the nearest human being light-years away, he's got to do it all alone. Or does he? An irresistible interstellar adventure as only Andy Weir could deliver, *Project Hail Mary* is a tale of discovery, speculation, and survival to rival *The Martian*—while taking us to places it never dreamed of going.

*Light Speed* - Rob Dorsey 2018-01-02

Light Speed is the story of the first, faster than light spaceship, its captain and his co-pilot, a fully human "replicant" created in a lab and with a synthetic, artificial intelligence brain. In 2087 this is not unusual except that she is a Gen-5 AI, the Singularity personified. The other unusual thing is, they are in love.

**The Interplanetary Laser Jousting Tournament (HB)** - John Barry 2019-08-28

The Interplanetary Laser Jousting Tournament (HB) Or Relativity Revised By: John Barry It is said that two spaceships going away from each other at very high speeds are able to see light from the other travelling at the proper speed of light because space contracts and time slows down. What would happen if these two spacecrafts passed each other? Would space suddenly invert and time change speed? How would a spaceship travelling between two light sources, such as stars, see light from both going the right speed at the same time? If, on the other hand, light travels at a broad range of speeds and we can detect only that which is going the right speed for us, then where is all the other light hiding? An electron in a cyclotron that is accelerated toward a target at close to the speed of light gains mass. If the target were racing away at a near equal speed, would that extra mass turn out to not be there? This book suggests an alternate theory to special relativity and a few experiments to prove it - or help us to learn something new.

**Dogs with Careers: Ten Happy-Ending Stories of Purpose and Passion** - Anne Hart 2007-10-18

"They're library dogs, Charlie. They're all dog-faces," laughed the space station manager, as he waved goodnight to his security dogs and locked the gates. "They're not just dogs with jobs, but detective canines with investigative sniffing careers at the space station and in outer space." At night, the space station's library is eerie, dim lighted, and in places, simply velvet-shadow dark, except for the human's dogs. They mingle with the shape-shifting immortal space dogs that prowl the space station library's corridors and live among the rows of computers. Career dogs just want to have fun traveling onboard the space shuttles as working companion dogs, never locked behind gates. These dogs don't bite. They are dogs with purpose and passion. This is a team of working dogs that can shape-shift from dog to human and human to dog live outside of

time. And in this century, they work for a mother and daughter astronaut team. "Which dog sprayed wolf graffiti on the space shuttle?" A ground controller dog, a mellow, Chocolate Labrador retriever, studied the photo. "But how did it get there?" "Maybe it's a paste-on tattoo that the astronauts put on board to celebrate all those years here," the pack leader howled in a licorice-sweet yelp. The omega canine hurried to switch off another computer. 'Retriever,' formerly a "library greeter dog" but now the ground controller's pet, sniffed with curiosity. He stretched and curled up on top of the filing cabinet.

**Position-Sensitive Gaseous Photomultipliers: Research and Applications** - Francke, Tom 2016-05-23

Gaseous photomultipliers are defined as gas-filled devices capable of recording single ultraviolet (UV) and visible photons with high position resolution. Used in a variety of research areas, these detectors can be paired with computers to treat and store imaging information of UV-light. Position-Sensitive Gaseous Photomultipliers: Research and Applications explores the advancement of gaseous detectors as applied for single photon detection. Emphasizing emerging perspectives and new ways to apply gaseous detectors across research fields, this research-based publication is an essential reference source for engineers, physicists, graduate-level students, and researchers.

*The Story of Light* - Ben Bova 2002-10

From the origins of the earth to the exploration of the heavens, Ben Bova, a multiple winner of science fiction's Hugo Award, unveils the beauty and science of light. In accessible prose, he explains new discoveries in areas ranging from relativity and quantum physics to perspective and the Renaissance painters' use of light.

**Warrior from Heaven** - Kermit Zarley 2009-06-01

Biblical scholar Kermit Zarley unravels and joins together thousands of end-time prophecies in a reader-friendly, chronological framework that will help readers understand the messages the prophets left to us within the Bible. This book presents a new view of Jesus: that of Warrior-King who will return to Earth to wage battle against the Antichrist and deliver Israel from persecution. Also available: *The Third Day Bible* Code9781933538433

*What Is Relativity?* - Jeffrey Bennett 2014-02-25

An astrophysicist offers an entertaining introduction to Einstein's theories, explaining how well they have held up to rigorous testing over the years, and even describing the amazing phenomena readers would actually experience if they took a trip through a black hole.

*The Story of Light Science* - Dennis F. Vanderwerf 2017-08-06

This book traces the evolution of our understanding and utilization of light from classical antiquity and the early thoughts of Pythagoras to the present time. From the earliest recorded theories and experiments to the latest applications in photonic communication and computation, the ways in which light has been put to use are numerous and astounding. Indeed, some of the latest advances in light science are in fields that until recently belonged to the realm of science fiction. The author, writing for an audience of both students and other scientifically interested readers, describes fundamental investigations of the nature of light and ongoing methods to measure its speed as well as the emergence of the wave theory of light and the complementary photon theory. The importance of light in the theory of relativity is discussed as is the development of electrically-driven light sources and lasers. The information here covers the range of weak single-photon light sources to super-high power lasers and synchrotron light sources. Many cutting-edge topics are also introduced, including entanglement-based quantum communication through optical fibers and free space, quantum teleportation, and quantum computing. The nature and use of "squeezed light" - e.g. for gravitational wave detection - is another fascinating excursion, as is the topic of fabricated metamaterials, as used to create invisibility cloaks. Here the reader also learns about the realization of extremely slow speed and time-reversed light. The theories, experiments, and applications described in this book are, whenever possible, derived from original references. The many annotated drawings and level of detail make clear the goals, procedures, and conclusions of the original investigators. Where they are required, all specialist terms and mathematical symbols are defined and explained. The final part of the book covers light experiments in the free space of the cosmos, and also speculates about scenarios for the cosmological origins of light and the expected fate of the photon in a dying universe.

*Close Encounters?* - R.J Lambourne 1990-01-01

Currently, science fiction in all its forms is enjoying enormous popular interest. There can be no doubt that science fiction books and films have great influence on the public view of science and scientists. Close

Encounters? examines the historical development of science fiction as a genre in books and films, tracing its roots, examining its most common ideas, exploring its relationship to "real" science, and attempting to assess its cultural impact. Discussion focuses on major themes such as time travel, politics, religion, ecology, and disasters. The authors consider the science in science fiction, the images of scientists that science fiction conveys, and some of the political, religious, and social motifs prominent in science fiction. They also discuss pseudo-science and its growing influence on the public perception of science. This fascinating, thought-provoking study should be read by all those interested in how the nature of science and its role in our society is portrayed in science fiction.

**Spooky Action at a Distance** - George Musser 2015-11-03

What is space? It isn't a question that most of us normally stop to ask. Space is the venue of physics; it's where things exist, where they move and take shape. Yet over the past few decades, physicists have discovered a phenomenon that operates outside the confines of space and time. The phenomenon-the ability of one particle to affect another instantly across the vastness of space-appears to be almost magical. Einstein grappled with this oddity and couldn't quite resolve it,

describing it as "spooky action at a distance." But this strange occurrence has direct connections to black holes, particle collisions, and even the workings of gravity. If space isn't what we thought it was, then what is it? In *Spooky Action at a Distance*, George Musser sets out to answer that question, offering a provocative exploration of nonlocality and a celebration of the scientists who are trying to understand it. Musser guides us on an epic journey of scientific discovery into the lives of experimental physicists observing particles acting in tandem, astronomers discovering galaxies that look statistically identical, and cosmologists hoping to unravel the paradoxes surrounding the big bang. Their conclusions challenge our understanding not only of space and time but of the origins of the universe-and their insights are spurring profound technological innovation and suggesting a new grand unified theory of physics.

*Faster Than Sound* - Bill Gunston 2012

This is the thrilling story of how test pilots in the USA and UK first pierced the sound barrier in the late 1940s. Much has happened since then, and as recently as 2003 thousands of fare-paying passengers were routinely enjoying intercontinental air travel at speeds of up to Mach 2. The author describes in accessible style the rules and .....