

Download File Time Travel And Warp Drives A Scientific Guide To Shortcuts Through Space Allen Everett Pdf For Free

Time Travel and Warp Drives Wormholes, Warp Drives and Energy Conditions Warp Speed Warp Speed Warp Drives Frontiers of Propulsion Science Faster Than Light Warp Speed Astronomy 101 Treknology Warp Speed Astronomy 101 Warp Drive and Beyond from Here to the Stars Shred! The Quantum Connection Warp-Speed Branding Supply Chain Management at Warp Speed The Physics of Star Trek Emotional Healing at Warp Speed Wellness at Warp Speed Back-in-Time and Faster-than-Light Travel in General Relativity Manufacturing at Warp Speed My Warp Speed Mind Making Starships and Stargates Advanced Project Portfolio Management and the PMO Time Travel in Einstein's Universe Islands of Space Making Starships and Stargates Metamaterial Multiverse The New Time Travelers: A Journey to the Frontiers of Physics Special Relativity and Motions Faster Than Light Vaccines: Operation Warp Speed, Regulation and Safety Current Status of Metric Engineering with Implications for the Warp Drive From Zeno's Arrow Comes Warp Drive: Second Star to the Right, and Straight on Till Morning The Physics of Stargates Danny Dunn and the Anti-Gravity Paint 3+1 Formalism in General Relativity Warp Speed Introduction to 3+1 Numerical Relativity Tau Zero

A powerful story of how our nation's leaders overcame the odds, saving the American people from the throes of a deadly pandemic. The prior record for vaccine development and distribution was approximately 4.5 years. Operation Warp Speed got the COVID-19 vaccine to the American people in less than 10 months. Operation Warp Speed did not happen by accident. It was the result of exceptional leadership, explicit strategy, and unprecedented teamwork. Author Paul Mango, the foremost leader of Operation Warp Speed and the former deputy chief of US Health and Human Services, chronicles the challenges and real dangers of developing the vaccine. In this harrowing, behind-the-scenes account of the most successful public-private partnership since World War II, we learn how the nation's biggest leaders accomplished the impossible. Through sheer will and exceptional commitment, a small group of leaders fulfilled its mission, making the United States the only country in the world which could offer a vaccine to any citizen by April 2021, scarcely 14 months after the genetic identification of the virus. A guide to astronomy covers such topics as the Sun, the planets, galaxies, the big bang, and astrobiology, along with brief profiles of prominent figures in astronomy. Created for students in the end of their first year in band utilizing the first several notes presented in most first-year methods, the speed of the warp drive is up to you! A tremendous opportunity to teach rhythm, pitch and ensemble precision with this high energy original work. (1:30) This title is available in SmartMusic and Music Prodigy. Advanced Project Portfolio Management is a comprehensive book which presents a roadmap for the achievement of high value enterprise strategies and superior project management results. It provides methods for best project selection, faster completion, optimal project portfolio management, and how to explicitly measure the PMO for rapidly increasing project ROI. A Princeton astrophysicist explores whether journeying to the past or future is scientifically possible in this "intriguing" volume (Neil deGrasse Tyson). It was H. G. Wells who coined the term "time machine"—but the concept of time travel, both forward and backward, has always provoked fascination and yearning. It has mostly been dismissed as an impossibility in the world of physics; yet theories posited by Einstein, and advanced by scientists including Stephen Hawking and Kip Thorne, suggest that the phenomenon could actually occur. Building on these ideas, J. Richard Gott, a professor who has written on the subject for Scientific American, Time, and other publications, describes how travel to the future is not only possible but has already happened—and contemplates whether travel to the past is also conceivable. This look at the surprising facts behind the science fiction of time travel "deserves the attention of anyone wanting wider intellectual horizons" (Booklist). "Impressively clear language. Practical tips for chrononauts on their options for travel and the contingencies to prepare for make everything sound bizarrely plausible. Gott clearly enjoys his subject and his excitement and humor are contagious; this book is a delight to read." —Publishers Weekly Be amazed by 25 iconic pieces of tech from the Star Trek canon and the science behind how they function with Treknology. You will not believe how close we are to achieving some of them today. The name Star Trek conjures images of faster-than-light spacecraft, holographic crew members, and phasers set to stun. Some of these incredible devices may still be far from our reach, but others have made the leap from science fiction to science fact—and now you can learn

the science and engineering of what makes them tick. Treknology looks at over twenty-five iconic inventions from the complete history of the Star Trek television and film universe. Author Ethan Siegel explores and profiles these dazzling technologies and their role Star Trek, the science behind how they work, and how close we are to achieving them in the real world today. This stunning collection is packed with 150 superb film and television stills, prop photography, and scientific diagrams to pull you into another world. Brace yourself for a detailed look at the inner workings of Star Trek's computing capabilities, communications equipment, medical devices, and awe-inspiring ships. Treknology is one that no fan of Star Trek, or future tech, will want to miss. In recent months, the Coronavirus Disease 2019 (COVID-19) pandemic has spread globally, with the United States now reporting the highest number of cases of any country in the world. Currently, there are few treatment options available to lessen the health impact of the disease and no vaccines or other prophylactic treatments to curb the spread of the virus. Researchers and product developers are testing numerous types of vaccines--both in the laboratory and in some early-stage testing in humans. This book answers frequently asked questions about current efforts related to research and development of vaccines, their regulation, and related policy issues. Advertising expert Agnieszka M. Winkler offers an insider's perspective on how technology has changed marketing and advertising. Writing with clarity and confidence, she outlines the steps advertisers and marketers must take to keep pace. She cites high-profile companies like Dell Computers and Amazon as examples of brands that were built in months, not years. These examples illustrate her sometimes complex concepts, and make them more accessible. Unfortunately, she also devotes a large amount of space to what amounts to a commercial for an advertising software application that she's trying to sell. But for readers who can stomach the pitch, getAbstract recommends this book to those who work in marketing, advertising, or related industries, and to those who are making the transition to technology-driven brand building. (Editor's note: TeamToolz, one of the major resources covered in this book, is a pay-for-use service sold by the author.)

Many physical properties of our universe, such as the relative strength of the fundamental interactions, the value of the cosmological constant, etc., appear to be fine-tuned for existence of human life. One possible explanation of this fine tuning assumes existence of a multiverse, which consists of a very large number of individual universes having different physical properties. Intelligent observers populate only a small subset of these universes, which are fine-tuned for life. In this book we will review several interesting metamaterial systems, which capture many features of important cosmological models and offer insights into the physics of many other non-trivial spacetime geometries, such as microscopic black holes, closed time-like curves (CTCs) and the Alcubierre warp drive. This graduate-level, course-based text is devoted to the 3+1 formalism of general relativity, which also constitutes the theoretical foundations of numerical relativity. The book starts by establishing the mathematical background (differential geometry, hypersurfaces embedded in space-time, foliation of space-time by a family of space-like hypersurfaces), and then turns to the 3+1 decomposition of the Einstein equations, giving rise to the Cauchy problem with constraints, which constitutes the core of 3+1 formalism. The ADM Hamiltonian formulation of general relativity is also introduced at this stage. Finally, the decomposition of the matter and electromagnetic field equations is presented, focusing on the astrophysically relevant cases of a perfect fluid and a perfect conductor (ideal magnetohydrodynamics). The second part of the book introduces more advanced topics: the conformal transformation of the 3-metric on each hypersurface and the corresponding rewriting of the 3+1 Einstein equations, the Isenberg-Wilson-Matthews approximation to general relativity, global quantities associated with asymptotic flatness (ADM mass, linear and angular momentum) and with symmetries (Komar mass and angular momentum). In the last part, the initial data problem is studied, the choice of spacetime coordinates within the 3+1 framework is discussed and various schemes for the time integration of the 3+1 Einstein equations are reviewed. The prerequisites are those of a basic general relativity course with calculations and derivations presented in detail, making this text complete and self-contained. Numerical techniques are not covered in this book.

From the late Prof. William Joseph Bray There is 10 times more energy [on the moon] there than there ever was in fossil fuel on the Earth. --Gerald Kulcinski, nuclear engineering professor Helium-3. Nuclear fusion with no radioactive waste whatsoever. The product is pure proton, whose electromagnetic pulse is directly converted to electricity. It has already been done in the lab. Unfortunately, the isotope is so rare on Earth that it cannot be used as an energy source. The Moon's surface is covered with it. Although fifty parts per billion doesn't sound like a lot, roughly a 5 by 5 mile patch of lunar soil cut 9 feet deep would power the US for a year with absolutely no radioactive or other pollutants. Patches of Earth this size are cut routinely for mining operations for various ores. As we stand at this very moment with our toes overhanging that cliff, the point of no return for the immanent ecological catastrophe that will literally freeze dry this planet to a completely sterile, lifeless ball, this option that would make the burning of fossil fuels obsolete looks very appealing. The problem is, no way to get all that heavy mining equipment to and from the Moon. Raw materials, resources, space... War. We are at this time absolutely trapped on this planet with no way off. The abundance of resources available throughout the cosmos are not at all available to us. We are trapped, alone, with no ability to reach out to any other point or place in the cosmos; even though we can see the resources we need out there...it is all out of our reach. If we had the means to extend our reach, our ability to travel to any place even limited to just this galaxy, the abundance of resources, space, planetary bodies capable of sustaining agriculture, and so

on, would make the burning of fossil fuels obsolete, war over resources obsolete, even commerce itself obsolete, leaving the boundaries and limitations of 'cost' an absurdity; obsolete. It would mean the end of poverty, pollution, hunger, disease, war... And most of all, the struggle to survive, against one another, on a dying planet, would be over. "From Zeno's Arrow Comes Warp Drive: Second Star to the Right, and Straight On Till Morning" "Faster Than Light Travel Using the Quantum Zeno Effect" All of the technology required to construct this engine exist now; some phased array RADAR equipment, cathode ray tube (old style television) technology, and some high speed computing power. The design of the engine is not founded upon anything theoretical. Everything that went into the design of this engine has already been performed in the lab, reproduced, peer reviewed, published... It is merely a matter of slapping the parts together in the right way, a few clever modifications, and nothing more. There is no dollar value to this technology. The entire purpose is to deliver the engine freely to everyone. The purpose is to take a people, a planet that is at this moment dying, and raise it, bring the planet, its people, and everything that lives on it to the highest high. The first people to build this prototype will win. Everything needed to build the prototype is contained within this text. There will be some physical constants and such that have to be determined experimentally, but from that work the prototype can be constructed and demonstrated certainly within a decade. 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. Explore the curiosities of our galaxy with this comprehensive, digestible guide to astronomy! Too often, textbooks obscure the beauty and wonder of outer space with tedious discourse that even Galileo would oppose. Astronomy 101 cuts out the boring details and lengthy explanations, and instead, gives you a lesson in astronomy that keeps you engaged as you discover what's hidden beyond our starry sky. From the Big Bang and nebulae to the Milky Way and Sir Isaac Newton, this celestial primer is packed with hundreds of entertaining astronomy facts, charts, and photographs you won't be able to get anywhere else. So whether you're looking to unravel the mystery behind black holes, or just want to learn more about your favorite planets, Astronomy 101 has all the answers—even the ones you didn't know you were looking for. Discusses what people understand about space and time and how science fiction is becoming less fictional as time goes on. Top researchers in the field of gravitation present the state-of-the-art topics outlined in this book, ranging from the stability of rotating wormholes solutions supported by ghost scalar fields, modified gravity applied to wormholes, the study of novel semi-classical and nonlinear energy conditions, to the applications of quantum effects and the superluminal version of the warp drive in modified spacetime. Based on Einstein's field equations, this cutting-edge research area explores the more far-fetched theoretical outcomes of General Relativity and relates them to quantum field theory. This includes quantum energy inequalities, flux energy conditions, and wormhole curvature, and sheds light on not just the theoretical physics but also on the possible applications to warp drives and time travel. This book extensively explores the physical properties and characteristics of these 'exotic spacetimes,' describing in detail the general relativistic geometries that generate closed timelike curves. Explains how to use the psychotherapeutic technique of EMDR (Eye Movement Desensitization and Reprocessing) to help alleviate the effects of severe trauma, depression, and stress and promote total health, fitness, and well-being. This book introduces the modern field of 3+1 numerical relativity. The book has been written in a way as to be as self-contained as possible, and only assumes a basic knowledge of special relativity. Starting from a brief introduction to general relativity, it discusses the different concepts and tools necessary for the fully consistent numerical simulation of relativistic astrophysical systems, with strong and dynamical gravitational fields. Among the topics discussed in detail are the following: the initial data problem, hyperbolic reductions of the field equations, gauge conditions, the evolution of black hole space-times, relativistic hydrodynamics, gravitational wave extraction and numerical methods. There is also a final chapter with examples of some simple numerical space-times. The book is aimed at both graduate

students and researchers in physics and astrophysics, and at those interested in relativistic astrophysics. To create the exotic materials and technologies needed to make stargates and warp drives is the holy grail of advanced propulsion. A less ambitious, but nonetheless revolutionary, goal is finding a way to accelerate a spaceship without having to lug along a gargantuan reservoir of fuel that you blow out a tailpipe. Tethers and solar sails are conventional realizations of the basic idea. There may now be a way to achieve these lofty objectives. "Making Starships and Stargates" will have three parts. The first will deal with information about the theories of relativity needed to understand the predictions of the effects that make possible the "propulsion" techniques, and an explanation of those techniques. The second will deal with experimental investigations into the feasibility of the predicted effects; that is, do the effects exist and can they be applied to propulsion? The third part of the book – the most speculative – will examine the question: what physics is needed if we are to make wormholes and warp drives? Is such physics plausible? And how might we go about actually building such devices? This book pulls all of that material together from various sources, updates and revises it, and presents it in a coherent form so that those interested will be able to find everything of relevance all in one place. How does the Star Trek universe stack up against the real universe? What warps when you're traveling at warp speed? What is the difference between a wormhole and a black hole? Are time loops really possible, and can I kill my grandmother before I am born? Anyone who has ever wondered "could this really happen?" will gain useful insights into the Star Trek universe (and, incidentally, the real world of physics) in this charming and accessible guide. Lawrence M. Krauss boldly goes where Star Trek has gone-and beyond. From Newton to Hawking, from Einstein to Feynman, from Kirk to Picard, Krauss leads readers on a voyage to the world of physics as we now know it and as it might one day be. An accessible introduction to modern physics that focuses on wormholes and discusses among other topics their structure, stability, dynamics, operation as time machines, utility as portals to parallel universes, and their implications for the distant future of humanity. Read the wormhole FAQ and the bullet point "principles" scattered throughout to quickly absorb the basics of wormhole physics. Go back and read the interstitial material for greater depth. Written by a physicist with years of experience in gently introducing physics to the mathematically challenged, it also covers the history of wormhole physics and delineates the unsolved problems at the forefront of research.

Lisa Yee returns to her core strength in older middle-grade fiction and the characters that made her famous in this "Diary of a Wimpy Trekkie." Entering 7th grade is no big deal for Marley Sandelski: Same old boring classes, same old boring life. The only thing he has to look forward to is the upcoming Star Trek convention. But when he inadvertently draws the attention of Digger Ronster, the biggest bully in school, his life has officially moved from boring to far too dramatic . . . from invisible to center stage. SHRED THE ULTIMATE GUIDE TO WARP- SPEED GUITAR INCLUDES CD Did the coverage of the Clinton-Lewinsky scandal set a new low for American journalism? How has news gathering and reporting changed, and what effects has this had on the political and cultural landscape? In this insightful and thoughtful book, Bill Kovach and Tom Rosenstiel, two of America's leading press watchers, explore the new culture of news--what they call the new Mixed Media Culture--and show how it works. Warp Speed describes a world of news in which the speed of delivery is reducing the time for verification, sources are gaining more leverage over the news, and argument is overwhelming reporting. The press, forced to adhere to the demands of the bottom line and keep its audience, is straining more and more to find the Big Story to package as a form of entertainment, turning news stories into TV dramas; and turning history into a kind of Truman Show. As a result, the role of the press in a self-governing society is undermined. Grounded in extensive research, Warp Speed is informed by interviews and testimony from the principal journalists who covered this story and who covered the other great scandals of Washington politics. It offers detailed recommendations on how journalists can right their ship, such as using anonymous sources more responsibly and turning good journalism into good business. 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! This Hugo Award finalist, "justifiably regarded as a classic" (SFReviews.net), is the tale of an epic space voyage where time dilation goes horribly wrong. Aboard the spacecraft Leonora Christine, fifty crewmembers, half men and half women, have embarked on a journey of discovery like no other to a planet thirty light-years away. Since their ship is not capable of traveling faster than light, the crew will be subject to the effects of time dilation and relativity. They will age five years on board the ship before reaching their destination, but thirty-three years will pass on Earth. Experienced scientists and researchers, they have come to terms with the time conditions of their space travel. Until . . . the Leonora Christine passes through an uncharted nebula,

which damages the engine, making it impossible to decelerate the ship on the second half of their trip. To survive, the crewmembers have no choice but to bypass their destination and continue to accelerate toward the speed of light. But how will they keep hope alive and maintain order as they hurtle deeper into space with time passing more and more rapidly, and their ultimate fate unknown? With its combination of mind-blowing hard science and compelling human drama, *Tau Zero* is "the ultimate hard science novel" (Mike Resnick). Manufacturing systems don't exist in a vacuum, isolated from the rest of the company, but they are often managed that way. A truly effective, highly competitive manufacturing company integrates its manufacturing, marketing, sales, purchasing, and financial functions into a well-coordinated whole. Manufacturing at Warp Speed: Optimizing Supply Chain DigiCat Publishing presents to you this special edition of "Islands of Space" by John W. Jr. Campbell. DigiCat Publishing considers every written word to be a legacy of humankind. Every DigiCat book has been carefully reproduced for republishing in a new modern format. The books are available in print, as well as ebooks. DigiCat hopes you will treat this work with the acknowledgment and passion it deserves as a classic of world literature. The story of physicists' quest to answer a mind-boggling question: How can we travel through time? Since H. G. Wells' 1895 classic *The Time Machine*, readers of science fiction have puzzled over the paradoxes of time travel. What would happen if a time traveler tried to change history? Would some force or law of nature prevent him? Or would his action produce a "new" history, branching away from the original? In the last decade of the twentieth century a group of theoretical physicists at the California Institute of Technology undertook a serious investigation of the possibility of pastward time travel, inspiring a serious and sustained study that engaged more than thirty physicists working at universities and institutes around the world. Many of the figures involved are familiar: Einstein, Stephen Hawking and Kip Thorne; others are names known mostly to physicists. These are the new time travelers, and this is the story of their work--a profoundly human endeavor marked by advances, retreats, and no small share of surprises. It is a fantastic journey to the frontiers of physics. Some images in the ebook are not displayed owing to permissions issues. 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. This is a physics based book on the subject of warp drive, hyperdrive, and wormhole type drives for the purpose of space craft propulsion. Through a mishap in Professor Bulfinch's laboratory, Danny accidentally creates an anti-gravity paint. The natural use, of course, is for a spaceship -- the paint can replace rockets to get the ship into space. Unfortunately, the spaceship is launched prematurely after Danny and Joe follow Professor Bulfinch and Dr. Grimes on a tour of the ship. A mechanical failure dooms the four to a one-way trip out of the Solar System -- unless they can repair the spaceship in time! This is the first of the 15-volume Danny Dunn series and features the original cover by acclaimed artist Ezra Jack Keats. Look for "Danny Dunn on a Desert Island," the second volume of the series, coming soon from Wildside Press! The Breathtaking Sequel to Warp Speed Science Fiction Written by a Real Scientist Who is Also a Gifted Writer. Steven Montana, computer whiz and hacker extraordinaire, was attending college in Ohio when his world fell apart. A swarm of huge meteors fell all over the world, on Europe, on the United States, and in particular on Steven's home town in California. In an instant, his family and all his friends were gone. Suffering fits of deep depression, he dropped out of college and ended up working as a repairman in a video games store, where he did a brilliant job of repairing a 30-year-old video game. That caught the attention of the game's owner, who happened to be in a position to get Steven a government job, cracking computer codes, and reverse engineering unusual hardware. When he was given a tiny piece of hardware to examine as a "test," he worked out its functions so well that he and his boss were called to Washington for a Top Secret meeting. They asked him countless questions, yet declined to answer his; but he would soon learn all the answers. The "meteor" onslaught that had orphaned him had actually been a brief and still secret war between the U.S and its enemies (as told in *Warp Speed*) using a new warp drive technology that was more secret than top secret. Another secret was that U.S. had been sending faster-than-light ships to other star systems. Most secret of all was that unfriendly aliens were observing the Earth, and while U.S. spaceships were not quite in a war with the unknown aliens, they were shooting at the intruders. Whether any of these answers would do Steven any good was an open question because he learned them only after he was abducted by those very same aliens and was held prisoner on one of their ships orbiting Saturn. At first, he was one of three human prisoners, but he had just seen the aliens completely dissect one of the three, and it looked like either Steven, or the Russian girl who was his fellow prisoner, were scheduled to be the next alien lab experiment. . . . At the publisher's request, this title is sold without DRM (Digital Rights Management). Praise for *Warp Speed*, the prequel: "Reads like Doc Smith writing Robert Ludlum; beautiful, vivacious female astronauts, sterling-hearted redneck scientists and evil mercenaries bent upon galaxy-wide conquest. You won't want to put it down. FLUBELLS AWAY!" ¾John Ringo "You thought they didn't write 'em like this anymore Doc Travis does!" ¾Jim Baen For ages 3-9... Do you have trouble paying attention and being still? Do you feel like everyone is always mad at you? Drake knows how you feel. With some help he will learn how to control

his impulses. A spaceship that can go warp speed is great, but only if you know how to make it slow down too! For the past 20 years causality violations and superluminal motion have been the object of intensive study as physical and geometrical phenomena. This book compiles the results of its author and also reviews other work in the field. In particular, the following popular questions are addressed: Is causality protected by quantum divergence at the relevant Cauchy horizon? How much "exotic matter" would it take to create a time machine or a warp drive? What is the difference between a "discovered" time machine and a created one? Why does a time traveler fail to kill their grandfather? How should we define the speed of gravity and what is its magnitude? To create the exotic materials and technologies needed to make stargates and warp drives is the holy grail of advanced propulsion. A less ambitious, but nonetheless revolutionary, goal is finding a way to accelerate a spaceship without having to lug along a gargantuan reservoir of fuel that you blow out a tailpipe. Tethers and solar sails are conventional realizations of the basic idea. There may now be a way to achieve these lofty objectives. "Making Starships and Stargates" will have three parts. The first will deal with information about the theories of relativity needed to understand the predictions of the effects that make possible the "propulsion" techniques, and an explanation of those techniques. The second will deal with experimental investigations into the feasibility of the predicted effects; that is, do the effects exist and can they be applied to propulsion? The third part of the book – the most speculative – will examine the question: what physics is needed if we are to make wormholes and warp drives? Is such physics plausible? And how might we go about actually building such devices? This book pulls all of that material together from various sources, updates and revises it, and presents it in a coherent form so that those interested will be able to find everything of relevance all in one place.

Tomorrow the Stars! Today, World War III! Dr. Neil Anson Clemons was born at the very moment that men first landed on the moon and always strived to become an astronaut and reach the stars. Becoming an astronaut and traveling to the stars are not easy tasks. Neil devoted his life to staying physically fit as any astronaut should be through martial arts and mentally fit by studying and becoming one of the world's foremost experts in quantum physics and gravitational theory. Now he and his team have achieved a breakthrough, both in building a warp drive, and finding a new energy source powerful enough to make the drive more than an interesting theoretical concept. With the help of attractive and outspoken southern astronaut, US Air Force Colonel Tabitha Ames, the US Government is convinced to fund the Top Secret warp project, including assembly in orbit of the first faster-than-light probe. Unfortunately, forces working behind the scenes have much darker dreams, and have infiltrated the Top Secret program. They do not hesitate to blow up a space shuttle, attempt to kill Neil and Tabitha, and use the stolen warp technology to start what they expect to be a short, devastating, and victorious war with the United States. But Dr. Clemons has ideas for using his warp drive technology completely unsuspected by America's enemies, and repelling the all-out attack is only the beginning of a titanic struggle to reach the stars. Warp Speed is lightning-paced science fiction adventure built upon authentic science in the grand tradition of Isaac Asimov, Arthur C. Clarke, and E. E. "Doc" Smith. At the publisher's request, this title is sold without DRM (Digital Rights Management). In 2000, Schragenheim and Dettmer published the ground-breaking Manufacturing at Warp Speed. At the time, the cutting-edge ideas expressed were the original work of the authors and not well-known beyond the book's audience. In the years that followed, Dr. Eliyahu Goldratt, father of the Theory of Constraints (TOC), adopted their ideas, added his own valuable insights, and popularized them worldwide. Supply Chain Management at Warp Speed serves as the sequel that refines and updates the former approach to production management with new ideas that complement earlier tactics. The authors' prime motivation for writing this book was to integrate the TOC method for managing the distribution of finished goods with the acquisition of raw materials and the manufacturing process. The result is the first book to describe, in detail, the application of the TOC approach to assured availability in distribution, for both original equipment manufacturers and retailers. "State-Of-The-Art" in Applying Theory of Constraints This cutting-edge reference broadens the scope of its predecessor by integrating manufacturing, distribution, and raw material management into a single end-to-end supply chain. It addresses the new demands taken on when a firm offers to handle rush orders. It also reviews the issues surrounding availability and the management of inventory moving through distribution systems. Fully illustrated, with numerous examples, case studies, and manufacturing scenarios, Supply Chain Management at Warp Speed provides TOC practitioners with the tools needed to address the performance issues of the entire supply chain and develop solutions that represent a win for the end-user as well as stakeholders along the entire supply chain. Inspirational speaker, pioneering physician, and international healthcare consultant, Dr. Noah McKay hit the limits of conventional medicine when he was hospitalized with heart failure in 1989. Desperate for a cure he was told was not possible, he began delving into quantum science and the formulas of Einstein, Heisenberg, and Bell. In "Wellness at Warp Speed," Dr. McKay shares the hard-won results of his study. In lay terms, he explains the actions of atoms and subatomic particles in the body, which travel at "warp" speed, or the speed of light. Many of the advances in high-speed medical diagnostics -- for example, the CT, PET, and MRI scanners -- are attributable to the science he describes in this book. But Dr. McKay goes further in presenting a powerful case for attaining robust health and a sense of well-being by applying that same science to steering the light-speed operations occurring constantly within one's body.

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