

The Physics Of Star Trek Lawrence M Krauss

If you ally craving such a referred **The Physics Of Star Trek Lawrence M Krauss** book that will give you worth, get the unquestionably best seller from us currently from several preferred authors. If you want to witty books, lots of novels, tale, jokes, and more fictions collections are as well as launched, from best seller to one of the most current released.

You may not be perplexed to enjoy all books collections The Physics Of Star Trek Lawrence M Krauss that we will certainly offer. It is not just about the costs. Its just about what you infatuation currently. This The Physics Of Star Trek Lawrence M Krauss , as one of the most working sellers here will no question be along with the best options to review.

Fear of Physics - Lawrence M. Krauss 2007-07-30

Fear of Physics is a lively, irreverent, and informative look at everything from the physics of boiling water to cutting-edge research at the observable limits of the universe. Rich with anecdotes and accessible examples, it nimbly ranges over the tools and thought behind the world of modern physics, taking the mystery out of what is essentially a very human intellectual endeavor.

The Science of Star Wars - Mark Brake 2016-11-15

Discover the science behind the most popular sci-fi franchise of all time! Capturing the imagination and hearts of crowds worldwide, Star Wars is a fantastic feat of science fiction and fantasy. The Science of Star Wars addresses 50 topics that span the movies' universe such as battle technology, alien life, space travel, etc. You'll find fascinating explorations of the physics of Star Wars, its plausibility, and more. The perfect Star Wars gift for fans of the saga, this book addresses many unanswered, burning questions, including: How long before we get a Star Wars speeder off the ground? What exactly is the Force? How could Kylo Ren stop a blaster shot in mid-air? How could we live on a gas giant like Bepin, or a desert planet like Tatooine? Nature versus nurture: How does it play out in the making of Jedi? How much would it cost to build the Death Star? And much more! We marvel at the variety of creatures

and technology and the mystery behind the force. But how much of the Star Wars world is rooted in reality? Could we see some of the extraordinary inventions materialize in our world? This uncomplicated, entertaining read makes it easy to understand how advanced physics concepts, such as wormholes and Einstein's theory of relativity, apply to the Star Wars universe. The Science of Star Wars explains to non-technical readers how physics and fantasy might merge to allow for the possibility of interstellar travel; communication with foreign but intelligent lifeforms; human-like robots; alien planets fit for human life; weapons and spacecraft such as laser guns, light sabers, and the Millennium Falcon; and Force-like psychokinetic powers. In the 21st Century, we're on the edge of developing much of the technology from "a long time ago, in a galaxy far, far away"... These fantasies aren't as impossible as you might think! Written for every fan of George Lucas's films, you don't need to be a Jedi or an astrophysicist at NASA to appreciate all of Mark Brake and Jon Chase's fun and informative analysis of this classic series in The Science of Star Wars. Prepare your mind to make the jump to light speed and find out about the facts behind one of our favorite modern epics!

[The Biology of Star Trek](#) - Susan C. Jenkins 1998

The Physics of Star Wars - Patrick Johnson 2017-11-07

"The Physics of Star Wars reveals the very real-life science behind the fantastical galaxy of Star Wars"--Back cover.

Hiding in the Mirror - Lawrence M. Krauss 2006-11-28

An exploration of mankind's fascination with worlds beyond our own-by the bestselling author of *The Physics of Star Trek* Lawrence Krauss -an international leader in physics and cosmology-examines our long and ardent romance with parallel universes, veiled dimensions, and regions of being that may extend tantalizingly beyond the limits of our perception. Krauss examines popular culture's current embrace (and frequent misunderstanding) of such topics as black holes, life in other dimensions, strings, and some of the more extraordinary new theories that propose the existence of vast extra dimensions alongside our own. BACKCOVER: "An astonishing and brilliantly written work of popular science." -Science a GoGo "A brilliant, thrilling book . . . You'll have so much fun reading that you'll hardly notice you're getting a primer on contemporary physics and cosmology." -Walter Isaacson, author of *Benjamin Franklin: An American Life*

The Strangest Man - Graham Farmelo 2009-08-25

Paul Dirac was among the great scientific geniuses of the modern age. One of the discoverers of quantum mechanics, the most revolutionary theory of the past century, his contributions had a unique insight, eloquence, clarity, and mathematical power. His prediction of antimatter was one of the greatest triumphs in the history of physics. One of Einstein's most admired colleagues, Dirac was in 1933 the youngest theoretician ever to win the Nobel Prize in physics. Dirac's personality is legendary. He was an extraordinarily reserved loner, relentlessly literal-minded and appeared to have no empathy with most people. Yet he was a family man and was intensely loyal to his friends. His tastes in the arts ranged from Beethoven to Cher, from Rembrandt to Mickey Mouse. Based on previously undiscovered archives, *The Strangest Man* reveals the many facets of Dirac's brilliantly original mind. A compelling human story, *The Strangest Man* also depicts a spectacularly exciting era in scientific history.

The Fifth Essence - Lawrence M. Krauss 1991-07-16

Examines the work of scientists seeking to prove the existence of an elusive fifth essence, an invisible form of matter which may occupy ninety-percent of the universe

Celestial Bodies - Laura Jacobs 2018-05-08

A distinguished dance critic offers an enchanting introduction to the art of ballet As much as we may enjoy *Swan Lake* or *The Nutcracker*, for many of us ballet is a foreign language. It communicates through movement, not words, and its history lies almost entirely abroad--in Russia, Italy, and France. In *Celestial Bodies*, dance critic Laura Jacobs makes the foreign familiar, providing a lively, poetic, and uniquely accessible introduction to the world of classical dance. Combining history, interviews with dancers, technical definitions, descriptions of performances, and personal stories, Jacobs offers an intimate and passionate guide to watching ballet and understanding the central elements of choreography. Beautifully written and elegantly illustrated with original drawings, *Celestial Bodies* is essential reading for all lovers of this magnificent art form.

The Physics of Star Trek - Lawrence M. Krauss 2007-08-02

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.

The Physics of Star Trek - Lawrence M. Krauss 2007-08-02

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.

Atom - Lawrence M. Krauss 2001-04-11

The story of matter and the history of the cosmos from the perspective of a single oxygen atom, told with the insight and wit of one of the most dynamic physicists and writers working today. Through this astonishing work, he manages to stoke wonder at the powers and unlikely events that conspired to create our solar system, our ecosystem, and us.

The Physics of Climate Change - Lawrence M. Krauss 2021-01-26

The first book to briefly and clearly present the science of climate change in a way that is accessible to laypeople, providing the perspective needed to understand and assess the foundations and predictions of climate change. "Brilliant and fundamental, this is the necessary book about our prime global emergency. Here you'll find the facts, the processes, the physics of our complex and changing climate, but delivered with eloquence and urgency. Lawrence Krauss writes with a clarity that transcends mere politics. Prose and poetry were never better bedfellows." —Ian McEwan "A brief, brilliant, and charming summary of what physicists know about climate change and how they learned it." —Sheldon Glashow, Nobel Laureate in Physics, Metcalf Distinguished Professor Emeritus, Boston University "The distinguished scientist Lawrence Krauss turns his penetrating gaze on the most pressing existential threat facing our world: climate change. It is brimming with information lucidly analysed. Such hope as there is lies in science, and a physicist of Dr. Krauss's imaginative versatility is unusually qualified to offer it." —Richard Dawkins, author of *The Blind Watchmaker* and *Science in the Soul* "Lucid and gripping, this study of the most severe challenge humans have ever faced leads the reader from the basic physics of climate change to recognition of the damage that humans have already caused and on to the prospects that lie ahead if we do not

change course soon." —Noam Chomsky, Laureate Professor, University of Arizona, author of *Internationalism or Extinction?* "Lawrence Krauss tells the story of climate change with erudition, urgency, and passion. It is our great good luck that one of our most brilliant scientists is also such a gifted writer. This book will change the way we think about the future." —Jennifer Finney Boylan, author of *Good Boy and She's Not There* "Everything on climate change that I've seen is either dumbed down and bossy or written for other climate scientists. I've been looking for a book that can let me, a layperson, understand the science. This book does just what I was looking for. It is important." —Penn Jillette, Magician, author of *Presto!* and *God, No!* "The renowned physicist Lawrence Krauss makes the science behind one of the most important issues of our time accessible to all." —Richard C. J. Somerville, Distinguished Professor Emeritus, Scripps Institution of Oceanography, University of California, San Diego "Lawrence Krauss is a fine physicist, a talented writer, and a scientist deeply engaged with public affairs. His book deserves wide readership. The book's eloquent exposition of the science and the threats should enlighten all readers and motivate them to an urgent concern about our planet's future." —Lord Martin Rees, Astronomer Royal, former president of the Royal Society, author of *On the Future: Prospects for Humanity*

Star Trek, where No One Has Gone Before - J. M. Dillard 1996

The ultimate Star Trek visual history, complete with personal accounts, anecdotes, and full-color photos, this entertaining, informative book provides a behind-the-scenes glimpse of the world of Star Trek, and includes essays by the late master of science fiction, Isaac Asimov.

The Greatest Story Ever Told--So Far - Lawrence M. Krauss

2017-03-21

An award-winning theoretical physicist and best-selling author of *A Universe from Nothing* traces the dramatic discovery of the counterintuitive world of reality, explaining how readers can shift their perspectives to gain greater understandings of our individual roles in the universe. --Publisher.

The Known Unknowns - Lawrence M. Krauss 2023-05-11

Atom - Lawrence M. Krauss 2002

Not only is matter constantly changing - or 'morphing' - but it was created at the beginning of the universe and will cease to exist only when our universe does. In *ATOM*, Krauss describes the journey of a single oxygen atom throughout our universe. Starting with its emergence at the Big Bang, Krauss will show how atoms were then forged in the nuclear furnaces of stars. From there, the reader will follow the atom as it travels across the Milky Way, and finally arrives on Earth, where it finds itself located in a drop of water, perhaps in the next glass of water you will drink. Along the way, Krauss supplies provocative reflections on the bigger questions, such as the origins of DNA (on a comet?) and the place of atoms in our everyday life. A clever combination of cutting-edge science and everyday phenomena, *ATOM* allows us to see both in a new light - through a glass, but not darkly!

Is Data Human? - Rick Hanley 1998-04-11

Professor Richard Hanley faced the dilemma plaguing so many philosophy professors today—how to entice students into the classroom. Based upon his own successful course, *Is Data Human* presents a thoroughly unique and enjoyable way of introducing students to the basic concepts of philosophy as seen through the lens of Star Trek. From the nature of a person, of minds, and of consciousness, to ethics and morality, to the nature and extent of knowledge and free will, Hanley brings a fresh perspective to the contemporary debates concerning humankind's place in the world. Dare to boldly go where no philosophy professor has gone before—a classroom packed with eager and enthusiastic students.

Fear of Physics - Lawrence M. Krauss 2007-07-30

"Assume the cow is a sphere." So begins this lively, irreverent, and informative look at everything from the physics of boiling water to cutting-edge research at the observable limits of the universe. Rich with anecdotes and accessible examples, *Fear of Physics* nimbly ranges over the tools and thought behind the world of modern physics, taking the mystery out of what is essentially a very human intellectual endeavour.

Beyond Star Trek - Lawrence M. Krauss 2011-04-05

In the bestselling *The Physics of Star Trek*, the renowned theoretical physicist Lawrence Krauss took readers on an entertaining and eye-opening tour of the Star Trek universe to see how it stacked up against the real universe. Now, responding to requests for more as well as to a number of recent exciting discoveries in physics and astronomy, Krauss takes a provocative look at how the laws of physics relate to notions from our popular culture -- not only Star Trek, but other films, shows, and popular lore -- from Independence Day to Star Wars to The X-Files. What's the difference between a flying saucer and a flying pretzel? Why didn't the aliens in Independence Day have to bother invading Earth to destroy it? What's new with warp drives? What's the most likely scenario for doomsday? Are ESP and telekinesis impossible? What do clairvoyance and time travel have in common? How might quantum mechanics ultimately affect the fate of life in the universe?

How Star Wars Conquered the Universe - Chris Taylor 2015-10-06

In 1973, a young filmmaker named George Lucas scribbled some notes for a far-fetched space-fantasy epic. Some forty years and 37 billion later, Star Wars -- related products outnumber human beings, a growing stormtrooper army spans the globe, and "Jediism" has become a religion in its own right. Lucas's creation has grown into far more than a cinematic classic; it is, quite simply, one of the most lucrative, influential, and interactive franchises of all time. Yet incredibly, until now the complete history of Star Wars -- its influences and impact, the controversies it has spawned, its financial growth and long-term prospects -- has never been told. In *How Star Wars Conquered the Universe*, veteran journalist Chris Taylor traces the series from the difficult birth of the original film through its sequels, the franchise's death and rebirth, the prequels, and the preparations for a new trilogy. Providing portraits of the friends, writers, artists, producers, and marketers who labored behind the scenes to turn Lucas's idea into a legend, Taylor also jousts with modern-day Jedi, tinkers with droid builders, and gets inside Boba Fett's helmet, all to find out how Star Wars has attracted and inspired so many fans for so long. Since the first film's release in 1977, Taylor shows, Star Wars has conquered our

culture with a sense of lightness and exuberance, while remaining serious enough to influence politics in far-flung countries and spread a spirituality that appeals to religious groups and atheists alike. Controversial digital upgrades and poorly received prequels have actually made the franchise stronger than ever. Now, with a savvy new set of bosses holding the reins and Episode VII on the horizon, it looks like Star Wars is just getting started. An energetic, fast-moving account of this creative and commercial phenomenon, *How Star Wars Conquered the Universe* explains how a young filmmaker's fragile dream beat out a surprising number of rivals to gain a diehard, multigenerational fan base -- and why it will be galvanizing our imaginations and minting money for generations to come.

The Physics of God and the Quantum Gravity Theory of Everything
- James Redford 2011-12-19

ABSTRACT: Analysis is given of the Omega Point cosmology, an extensively peer-reviewed proof (i.e., mathematical theorem) published in leading physics journals by professor of physics and mathematics Frank J. Tipler, which demonstrates that in order for the known laws of physics to be mutually consistent, the universe must diverge to infinite computational power as it collapses into a final cosmological singularity, termed the Omega Point. The theorem is an intrinsic component of the Feynman-DeWitt-Weinberg quantum gravity/Standard Model Theory of Everything (TOE) describing and unifying all the forces in physics, of which itself is also required by the known physical laws. With infinite computational resources, the dead can be resurrected—never to die again—via perfect computer emulation of the multiverse from its start at the Big Bang. Miracles are also physically allowed via electroweak quantum tunneling controlled by the Omega Point cosmological singularity. The Omega Point is a different aspect of the Big Bang cosmological singularity—the first cause—and the Omega Point has all the haecceities claimed for God in the traditional religions. From this analysis, conclusions are drawn regarding the social, ethical, economic and political implications of the Omega Point cosmology.

The Faces of Science Fiction - Patti Perret 1984

Portraits of eighty-two prominent American science fiction writers are accompanied by brief statements about their lives and work

The Physics of Climate Change - Lawrence M. Krauss 2021-01-26

“Brilliant and fundamental, this is the necessary book about our prime global emergency. Here you’ll find the facts, the processes, the physics of our complex and changing climate, but delivered with eloquence and urgency. Lawrence Krauss writes with a clarity that transcends mere politics. Prose and poetry were never better bedfellows.” —Ian McEwan, Booker Prize-winning author of *Solar and Machines Like Me* “The ideal book for understanding the science of global warming..at once elegant, rigorous, and timely.” — Elizabeth Kolbert, Pulitzer Prizewinning author of *The Sixth Extinction* “A brief, brilliant, and charming summary of what physicists know about climate change and how they learned it.”

—Sheldon Glashow, Nobel Laureate in Physics, Metcalf Distinguished Professor Emeritus, Boston University “The distinguished scientist Lawrence Krauss turns his penetrating gaze on the most pressing existential threat facing our world: climate change. It is brimming with information lucidly analysed. Such hope as there is lies in science, and a physicist of Dr. Krauss’s imaginative versatility is unusually qualified to offer it.” —Richard Dawkins, author of *The Blind Watchmaker* and *Science in the Soul* “Lucid and gripping, this study of the most severe challenge humans have ever faced leads the reader from the basic physics of climate change to recognition of the damage that humans have already caused and on to the prospects that lie ahead if we do not change course soon.” —Noam Chomsky, Laureate Professor, University of Arizona, author of *Internationalism or Extinction?* “Lawrence Krauss tells the story of climate change with erudition, urgency, and passion. It is our great good luck that one of our most brilliant scientists is also such a gifted writer. This book will change the way we think about the future.” —Jennifer Finney Boylan, author of *Good Boy and She’s Not There* “Everything on climate change that I’ve seen is either dumbed down and bossy or written for other climate scientists. I’ve been looking for a book that can let me, a layperson, understand the science. This book does just what I was looking for. It is important.” —Penn Jillette, Magician, author

of Presto! and God, No! “The renowned physicist Lawrence Krauss makes the science behind one of the most important issues of our time accessible to all.” —Richard C. J. Somerville, Distinguished Professor Emeritus, Scripps Institution of Oceanography, University of California, San Diego “Lawrence Krauss is a fine physicist, a talented writer, and a scientist deeply engaged with public affairs. His book deserves wide readership. The book’s eloquent exposition of the science and the threats should enlighten all readers and motivate them to an urgent concern about our planet’s future.” —Lord Martin Rees, Astronomer Royal, former president of the Royal Society, author of *On the Future: Prospects for Humanity*

The Physics of Christianity - Frank J. Tipler 2008-08-19

A highly respected physicist demonstrates that the essential beliefs of Christianity are wholly consistent with the laws of physics. Frank Tipler takes an exciting new approach to the age-old dispute about the relationship between science and religion in *The Physics of Christianity*. In reviewing centuries of writings and discussions, Tipler realized that in all the debate about science versus religion, there was no serious scientific research into central Christian claims and beliefs. So Tipler embarked on just such a scientific inquiry. *The Physics of Christianity* presents the fascinating results of his pioneering study. Tipler begins by outlining the basic concepts of physics for the lay reader and brings to light the underlying connections between physics and theology. In a compelling example, he illustrates how the God depicted by Jews and Christians, the Uncaused First Cause, is completely consistent with the Cosmological Singularity, an entity whose existence is required by physical law. His discussion of the scientific possibility of miracles provides an impressive, credible scientific foundation for many of Christianity’s most astonishing claims, including the Virgin Birth, the Resurrection, and the Incarnation. He even includes specific outlines for practical experiments that can help prove the validity of the “miracles” at the heart of Christianity. Tipler’s thoroughly rational approach and fully accessible style sets *The Physics of Christianity* apart from other books dealing with conflicts between science and religion. It will appeal not

only to Christian readers, but also to anyone interested in an issue that triggers heated and divisive intellectual and cultural debates.

Physics of the Impossible - Michio Kaku 2008-03-11

Teleportation, time machines, force fields, and interstellar space ships—the stuff of science fiction or potentially attainable future technologies? Inspired by the fantastic worlds of *Star Trek*, *Star Wars*, and *Back to the Future*, renowned theoretical physicist and bestselling author Michio Kaku takes an informed, serious, and often surprising look at what our current understanding of the universe's physical laws may permit in the near and distant future. Entertaining, informative, and imaginative, *Physics of the Impossible* probes the very limits of human ingenuity and scientific possibility.

Quintessence - Lawrence M. Krauss 2001

Will the universe continue to expand forever, reverse its expansion and begin to contract, or reach a delicately poised state where it simply persists forever? The answer depends on the amount and properties of matter in the universe, and that has given rise to one of the great paradoxes of modern cosmology; there is too little visible matter to account for the behaviour we can see. Over 90 percent of the universe consists of 'missing mass' or 'dark matter' - what Lawrence Krauss, in his classic book, termed the fifth essence. In this new edition of *The Fifth Essence*, retitled *Quintessence* after the now widely accepted term for dark matter, Krauss shows how the dark matter problem is now connected with two of the hottest areas in recent cosmology: the fate of the universe and the cosmological constant. With a new introduction, epilogue and chapter updates, Krauss updates his classic and shares one of the most stunning discoveries of recent years: an antigravity force that explains recent observations of a permanently expanding universe.

Insultingly Stupid Movie Physics - Tom Rogers 2007-11-01

-Would the bus in *Speed* really have made that jump? -Could a *Star Wars* ship actually explode in space? -What really would have happened if you said "Honey, I shrunk the kids"? The companion book to the hit website (www.intuitor.com/moviephysics), which boasts more than 1 million visitors per year, *Insultingly Stupid Movie Physics* is a hilarious guide to

the biggest mistakes, most outrageous assumptions, and the outright lunacy at work in Hollywood films that play with the rules of science. In this fascinating and funny guide, author Tom Rogers examines 20 different topics and shows how, when it comes to filmmaking, the rules of physics are flexible. Einsteins and film buffs alike will be educated and entertained by this wise and witty guide to science in Hollywood.

Treknology - Ethan Siegel 2017-10-17

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.

Beyond Star Trek - Lawrence M. Krauss 2011-04-05

In the bestselling *The Physics of Star Trek*, the renowned theoretical physicist Lawrence Krauss took readers on an entertaining and eye-opening tour of the Star Trek universe to see how it stacked up against the real universe. Now, responding to requests for more as well as to a number of recent exciting discoveries in physics and astronomy, Krauss takes a provocative look at how the laws of physics relate to notions from our popular culture -- not only Star Trek, but other films, shows, and popular lore -- from *Independence Day* to *Star Wars* to *The X-Files*.

What's the difference between a flying saucer and a flying pretzel? Why didn't the aliens in *Independence Day* have to bother invading Earth to destroy it? What's new with warp drives? What's the most likely scenario for doomsday? Are ESP and telekinesis impossible? What do clairvoyance and time travel have in common? How might quantum mechanics ultimately affect the fate of life in the universe?

A Universe from Nothing - Lawrence M. Krauss 2012-01-10

Bestselling author and acclaimed physicist Lawrence Krauss offers a paradigm-shifting view of how everything that exists came to be in the first place. "Where did the universe come from? What was there before it? What will the future bring? And finally, why is there something rather than nothing?" One of the few prominent scientists today to have crossed the chasm between science and popular culture, Krauss describes the staggeringly beautiful experimental observations and mind-bending new theories that demonstrate not only can something arise from nothing, something will always arise from nothing. With a new preface about the significance of the discovery of the Higgs particle, *A Universe from Nothing* uses Krauss's characteristic wry humor and wonderfully clear explanations to take us back to the beginning of the beginning, presenting the most recent evidence for how our universe evolved—and the implications for how it's going to end. Provocative, challenging, and delightfully readable, this is a game-changing look at the most basic underpinning of existence and a powerful antidote to outmoded philosophical, religious, and scientific thinking.

The Physics Book - Clifford A. Pickover 2011

Containing 250 short, entertaining, and thought-provoking entries, this book explores such engaging topics as dark energy, parallel universes, the Doppler effect, the God particle, and Maxwell's demon. The timeline extends back billions of years to the hypothetical Big Bang and forward trillions of years to a time of quantum resurrection.

A Universe from Nothing - Lawrence M. Krauss 2012

Internationally renowned theoretical physicist and bestselling author Lawrence Krauss offers provocative, revelatory answers to the biggest philosophical questions: Where did our universe come from? Why does

anything exist? And how is it all going to end? 'Why is there something rather than nothing?' is the question atheists and scientists are always asked, and until now there has not been a satisfying scientific answer. Today, exciting scientific advances provide new insight into this cosmological mystery: not only can something arise from nothing, but something will always arise from nothing. A mind-bending trip back to the beginning of the beginning, *A Universe from Nothing* authoritatively presents the most recent evidence that explains how our universe evolved - and the implications for how it's going to end. It will provoke, challenge, and delight readers to look at the most basic underpinnings of existence in a whole new way. In the words of Richard Dawkins: this could potentially be the most important scientific book since Darwin's *On the Origin of Species*.

Quintessence - Lawrence M. Krauss 2000

Will the universe continue to expand forever, reverse its expansion and begin to contract, or reach a delicately poised state where it simply persists forever? The answer depends on the amount and properties of matter in the universe, and that has given rise to one of the great paradoxes of modern cosmology: there is too little visible matter to account for the behavior we can see. Over ninety percent of the universe consists of "missing mass" or "dark matter" - what Lawrence Krauss, in his classic book, termed "the fifth essence." In this new edition of *The Fifth Essence*, retitled *Quintessence* after the now widely accepted term for dark matter, Krauss shows how the dark matter problem is now connected with two of the hottest areas in recent cosmology: the fate of the universe and the "cosmological constant." With a new introduction, epilogue, and chapter updates, Krauss updates his classic for 1999 and shares one of the most stunning discoveries of recent years: an anti-gravity force that explains recent observations of a permanently expanding universe.

A Universe from Nothing - Lawrence M. Krauss 2013-01-01

Bestselling author and acclaimed physicist Lawrence Krauss offers a paradigm-shifting view of how everything that exists came to be in the first place. "Where did the universe come from? What was there before

it? What will the future bring? And finally, why is there something rather than nothing?" One of the few prominent scientists today to have crossed the chasm between science and popular culture, Krauss describes the staggeringly beautiful experimental observations and mind-bending new theories that demonstrate not only can something arise from nothing, something will always arise from nothing. With a new preface about the significance of the discovery of the Higgs particle, *A Universe from Nothing* uses Krauss's characteristic wry humor and wonderfully clear explanations to take us back to the beginning of the beginning, presenting the most recent evidence for how our universe evolved—and the implications for how it's going to end. Provocative, challenging, and delightfully readable, this is a game-changing look at the most basic underpinning of existence and a powerful antidote to outmoded philosophical, religious, and scientific thinking.

Ordinary Geniuses - Gino Segre 2013-11-26

A fascinating tribute to the forefathers of two of today's most exciting scientific fields Thanks to Max Delbruck and George Gamow, today we have mapped the human genome and understand the ramifications of the Big Bang. In his characteristically inviting and elegant style, Gino Segre brings to life the story of these two great scientists and their long friendship and offers an accessible inside look the people behind the scenes of science—the collaboration and competition, the quirks and failures, the role of intuition and luck, and the sense of wonder and curiosity that keeps these extraordinary minds going.

The Physics of Star Trek - Lawrence Krauss 2007-07-10

Introduces physics as it analyzes the science behind "Star Trek," explaining the intricacies of warp speed and showing the difference between a holodeck and a hologram.

Quantum Man: Richard Feynman's Life in Science (Great Discoveries) - Lawrence M. Krauss 2012-03-26

Traces the colorful, turbulent life of the Nobel Prize-winning physicist, from the death of his childhood sweetheart during the Manhattan Project to his rise as an icon in the scientific community.

Letters to a Young Actor - Robert Brustein 2009-04-28

The founder and director of the Yale Repertory Theater, as well as Harvard's American Repertory Theater, and a drama critic for more than thirty years, Robert Brustein is a living legend in theatrical circles. *Letters to a Young Actor* not only inspires the multitudes of struggling dramatists out pounding the pavement, but also reinvigorates the very state of the art of acting itself.

The Science of Star Trek - Mark Brake 2022-04-05

Boldly go where no man has gone before and discover the real science behind the cyborgs, starships, aliens, and antimatter of the Star Trek galaxy. Star Trek is one of the highest-grossing media franchises of all time. It has changed our cultural landscape in so many ways since it first aired in 1966. The franchise has generated billions of dollars in revenue, leading to a wide range of spin-off games, novels, toys, and comics. Star Trek is noted for its social science, too, with its progressive civil rights

stances and its celebration of future diversity that began with The Original Series, one of television's first multiracial casts. *The Science of Star Trek* explores one of the greatest science-fiction universes ever created and showcases the visionary tech that inspired and influenced the real-world science of today. The perfect Star Trek gift for fans of the franchise, this book addresses many unanswered, burning questions, including: What can Star Trek tell us about aliens in our Milky Way? How has Star Trek influenced space culture? What can Star Trek tell us about planet hunting? What Star Trek machines came true? When will we boldly go? Learn more about one of our favorite modern epics with *The Science of Star Trek*!

The Science of Star Wars - Jeanne Cavelos 2000-05-05

Looks at "Star Wars" in the light of the latest scientific discoveries and research and evaluates the probability of light sabers, the "force," and alien life.