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From Alien Invasions to
the End of Time

BEYOND STAR TREK

The Physics of
Star Trek, The X-Files,
Star Wars, and Independence Day

LAWRENCE M. KRAUSS

Author of the National Bestseller *The Physics of Star Trek*

Beyond Star Trek From Alien Invasions To The End Of Time

Sean Miller



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Beyond Star Trek Lawrence M. Krauss, 2011-04-05 The author of *The Physics of Star Trek* expands his scope to address other sci fi hits ranging from the film 2001 A Space Odyssey to TV's *The X Files* Kirkus Reviews 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 Combining hard science and popular culture this delightful follow up to Krauss's *The Physics of Star Trek* continues to explore the possibilities principles and improbabilities of science fiction Relaxed and full of lively conversation Krauss is the physics teacher we all wish we had had in high school Publishers Weekly

Quantum Fractals: From Heisenberg's Uncertainty To Barnsley's Fractality Arkadiusz Jadczyk, 2014-07-23

Starting with numerical algorithms resulting in new kinds of amazing fractal patterns on the sphere this book describes the theory underlying these phenomena and indicates possible future applications The book also explores the following questions

A Universe from Nothing Lawrence M. Krauss, 2012-01-10 This is a provocative account of the astounding new answers to the most basic philosophical question Where did the universe come from and how will it end **Strung Together** Sean

Miller, 2013-03-18 An examination of the cultural influence of string theory in scientific and popular discourse [The Hole in the Universe](#) K. C. Cole, 2012-07-18 A compelling enjoyable and widely accessible exploration of one of the most fundamental scientific issues of our age Brian Greene author of *The Elegant Universe* In *The Hole in the Universe* an award winning science writer provides an illuminating slant on physics and mathematics by exploring the concept of nothing Scientific American Welcome to the world of cutting edge math physics and neuroscience where the search for the ultimate vacuum the point of nothingness the ground zero of theory has rendered the universe deep rich and juicy Every time scientists and mathematicians think they have reached the ultimate void something new appears a black hole an undulating string an additional dimension of space or time repulsive anti gravity universes that breed like bunnies Cole's exploration at the edge of everything is as playfully entertaining as it is informative San Jose Mercury News A strong and sometimes mind blowing introduction to the edges of modern physics Salon.com Comprising an expansive set of topics from the history of numbers to string theory the big bang even Zen the book's chapters are broken into bite sized portions that allow the author to revel in the puns and awkwardness that comes with trying to describe a concept that no one has fully grasped It is an amorphous

flowing mind bending discussion written in rich graceful prose As clear and accessible as Hawking s A Brief History of Time this work deserves wide circulation not just among science buffs Publishers Weekly starred review Here we have the definitive book about nothing and who would think that nothing could be so interesting not only accessible but compelling reading St Louis Post Dispatch

The War on Science Lawrence Krauss, 2025-09-25 An unparalleled group of prominent scholars from wide ranging disciplines detail ongoing efforts to impose ideological restrictions on science and scholarship throughout western society From assaults on merit based hiring to the policing of language and replacing well established disciplinary scholarship by ideological mantras current science and scholarship is under threat throughout western institutions As detailed by this group of prominent scholars who range across many different disciplines and political leanings the very future of free inquiry and scientific progress is at risk Many who have spoken up against this threat have lost their positions and a climate of fear has arisen that strikes at the heart of modern education and research Banding together to finally speak out this brave and unprecedented group of scholars issues a clarion call for change Contributors Richard Dawkins Alan Sokal Niall Ferguson Gad Saad Anna Krylov Jay Tanzman John Armstrong Jerry Coyne Luana Maroja Sally Satel Geoff Horsman Alessandro Strumia Roger Cohen Amy Wax Alex Byrne Moti Gorin Judith Suissa Alice Sullivan Dorian Abbot Steven Pinker Nicholas Christakis Richard E Redding

Before and After Roswell David A. Clary, 2001-01-22 The flying saucer has been the most vivid and persistent image in American life of the last half century It has also generated more controversy and rancor than anything else that might be characterized as a fantasy It is malleable suiting a wide variety of beliefs and outlooks touching nearly every public concern It arrived as a mysterious threat from above a metaphor for The Bomb It transformed swiftly into a hope from above promising to save us from ourselves Renamed UFO it became a symbol for those who distrusted the government Along its way through the postwar skies it acquired a cargo that included every species of hoax craziness lunacy and even sexual fantasy along with a fair amount of scientific and political baggage The flying saucer myth says much about how Americans react to the unexpected Before and After Roswell The Flying Saucer in America 1947 1999 places the flying saucer idea in the context of history politics entertainment and science to arrive at an explanation of what it is all about and how it got that way Because the Roswell incident the story that a flying saucer crashed near Roswell New Mexico in 1947 and that the government has hidden the truth about it ever since has dominated the subject recently the book is anchored around that particular story while demonstrating that the flying saucer did exist before and after Roswell It corrects some misconceptions including one that holds that because a majority of people say they believe in UFOs they therefore believe in a conspiracy to cover up the truth about them After detailing what actually happened in Roswell in 1947 the book takes up the birth of the flying saucer earlier that year underscoring the fact that the name originally denoted its movement not its shape The text then examines the Air Forces and CIAs responses to the phenomenon and the rise of competing bands of ufologists true believers and skeptics to dominate debate over it The book also addresses

Cold War contributions to the UFO issue and the role of Hollywood in providing the images that defined it Along the way it describes the crashed saucer tradition the contactees abductions men in black the Bermuda Triangle ancient astronauts cattle mutilations the little gray alien SETIs Drake Equation sex and the flying saucer and the rise of a new ufology emanating from the conspiracy culture growing out of the Kennedy assassination mythology and the Watergate scandal Part Two of Before and After Roswell begins with the invention of the incident in 1980 then traces the history of the flying saucer idea to the end of the century Important here are the submersion of the saucer into the larger anti government conspiracy tradition of that period and the increasing domination of the subject by television including Area 51 a myth invented on a TV show and the combined influence of reality based cable documentaries and the amazingly popular series The X Files Also addressed are such things as crop circles the MAJIC hoax the face on Mars UFO conspiracy fiction and the explosion of the abduction belief A chapter on The Battle of Roswell traces the evolution of that controversy through a succession of books by ufologists in the end it broke down into disputed orthodoxies and feuds over who had the real crash site to charge admission to When boosters tried to turn Roswell into a tourist attraction their quarrels and mercenary outlook alienated the town and made the annual UFO Encounter a flop The book concludes that the flying saucer is not a thing but an idea and one that will overcome the burden of

Centauri Dreams Paul Gilster,2013-04-18 I wrote this book because I wanted to learn more about interstel lar flight Not the Star Trek notion of tearing around the Galaxy in a huge spaceship that was obviously beyond existing tech nology but a more realistic mission In 1989 I had videotaped Voyager 2 s encounter with Neptune and watched the drama of robotic exploration over and over again I started to wonder whether we could do something similar with Alpha Centauri the nearest star to the Sun Everyone seemed to agree that manned flight to the stars was out of the question if not permanently then for the indefinitely foreseeable future But surely we could do something with robotics And if we could figure out a theoretical way to do it how far were we from the actual technology that would make it happen In other words what was the state of our interstellar technology today those concepts and systems that might translate into a Voyager to the stars Finding answers meant talking to people inside and outside of NASA I was surprised to learn that there is a large literature of interstellar flight Nobody knows for sure how to propel a space craft fast enough to make the interstellar crossing within a time scale that would fit the conventional idea of a mission but there are candidate systems that are under active investigation Some of this effort begins with small systems that we ll use near the Earth and later hope to extend to deep space missions

First You Build a Cloud K. C. Cole,2018-06-01 This clearly written and compelling look at physics and physicists offers thousands of new ways to see our daily world more richly Douglas Hofstadter author of G del Escher Bach For many of us physics has always been a thing of mystery and complexity K C Cole an award winning science writer specializes in making its wonders accessible to the everyday reader This book uses lively prose metaphors and anecdotes to allow us to comprehend the nuances of physics gravity and light color and shape quarks and quasars particles and stars force

and strength It also shows us how the physical world is so deeply intertwined with the ways we think about culture poetry and philosophy and explores the workings of such legendary scientific minds as Richard Feynman Victor Weisskopf brothers Frank Oppenheimer and J Robert Oppenheimer Philip Morrison Vera Kistiakowsky and Stephen Jay Gould An exemplary science writer For readers without scientific background Cole gracefully introduces relativity quantum theory optics astrophysics and other significant disciplines never getting bogged down in unnecessary explanation Thus you may not learn all about thermodynamics from reading her chapter on it but you will learn enough to think seriously about the entropy in your own life Cole sprinkles her text with comments from famous scientists Space is blue and birds fly in it said Heisenberg and Faraday said Nothing is too wonderful to be true that are not only delightful in themselves but perfectly suited to her own text No review of Cole s book could be too wonderful to be true Booklist *Perspectives in Controversy* Kenneth T. Broda-Bahm,2002 *Perspectives in Controversy* brings together essays from the journal *Contemporary Argumentation and Debate* into a single volume These essays explore current controversies in the theory of competitive academic debate

Science Fact and Science Fiction Brian M. Stableford,2006 Publisher description [Getting at Jesus](#) Peter S. Williams,2019-01-29 Portraying themselves as challenging blind religious dogma with evidence led skepticism the neo atheist movement claims that the New Testament contains unreliable tales about a mythical figure who far from being the resurrected Lord of life may not even have lived This comprehensive critique documents the falsehood of these neo atheist claims correcting their historical and philosophical mistakes to show how we can get at the truth about the historical Jesus

Set Phasers to Teach! Stefan Rabitsch,Martin Gabriel,Wilfried Elmenreich,John N.A. Brown,2018-07-10 For 50 years Star Trek has been an inspiration to its fans around the world helping them to dream of a better future This inspiration has entered our culture and helped to shape much of the technology of the early 21st Century The contributors to this volume are researchers and teachers in a wide variety of disciplines from Astrophysics to Ethnology from English and History to Medicine and Video Games and from American Studies to the study of Collective Computing Systems What the authors have in common is that some version of Star Trek has inspired them not only in their dreams of what may be but in the ways in which they work and teach others to work here in the real world Introduced with references to Star Trek films and television shows and illustrated with original cartoons each of the 15 chapters included in this volume provides insights into research and teaching in this range of academic fields *Gaither's Dictionary of Scientific Quotations* Carl C. Gaither,Alma E. Cavazos-Gaither,2012-01-04 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a

relevant quotation that provides perspective and historical background on his subject Gaither's Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

Beyond Star Trek Lawrence M. Krauss,1997-03-01 Krauss the renowned theoretical physicist 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 popular lore from Independence Day to Star Wars to The X Files Join him on a fun mind bending journey through the nature of alien visitation interstellar travel including warp drive systems consciousness time ESP the probability of other life in the universe quantum reality He has turned to his colleagues including the foremost theoretical physicists in the world asking them about the greatest unsolved mysteries of the universe The answers will surprise you **Textual Analysis** Alan McKee,2003-04-03

Textual analysis is a methodology a way of gathering data for researchers who are interested in the ways in which people make sense of the world **Utopias** Howard P. Segal,2012-03-02 This brief history connects the past and present of utopian thought from the first utopias in ancient Greece right up to present day visions of cyberspace communities and paradise Explores the purpose of utopias what they reveal about the societies who conceive them and how utopias have changed over the centuries Unique in including both non Western and Western visions of utopia Explores the many forms utopias have taken prophecies and oratory writings political movements world's fairs physical communities and also discusses high tech and cyberspace visions for the first time The first book to analyze the implicitly utopian dimensions of reform crusades like Technocracy of the 1930s and Modernization Theory of the 1950s and the laptop classroom initiatives of recent years

First You Build a Cloud K. C Cole,1999 **Science Was Wrong** Stanton T. Friedman,2010-06-20 Two months before the Wright brothers historic flight at Kitty Hawk a top scientist declared that no possible combination of known substances known forces of machinery and known forms of force can be united in a practical flying machine Germ theory was first advanced in ancient Sanskrit texts thousands of years ago but wasn't widely accepted until late in the 19th century Space travel was declared utter bilge in 1956 by the British astronomer Royal one of a long line of scientists who proved it was impossible Throughout history it has been difficult even impossible to promote the acceptance of new discoveries Yet during the last two centuries there has been a veritable explosion of new cures theories techniques and inventions that have revolutionized aviation space travel communications medicine and warfare Most of them of course were deemed impossible Science Was Wrong is a fascinating collection of stories about the pioneers who created or thought up the impossible cures theories and inventions they said couldn't work How many have suffered or died because cures weren't accepted How many inventions have been quashed How much progress was delayed or denied You will end up shaking your head in disbelief and even disgust as you learn the answers 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

Beyond Star Trek From Alien Invasions To The End Of Time Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Beyond Star Trek From Alien Invasions To The End Of Time**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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