The Physics of Star Trek

Lawrence M. Krauss, Larry McKeever
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#7081755 in Books Harper Audio 1995-11-02Formats: Audiobook, AbridgedOriginal language:EnglishPDF # 2 7.25 x 4.75 x 1.00l, Binding: Audio Cassette | File size: 71.Mb

Lawrence M. Krauss, Larry McKeever : The Physics of Star Trek before purchasing it in order to gage whether or not it would be worth my time, and all praised The Physics of Star Trek:

0 of 0 people found the following review helpful. The Wrath of Krauss?By CustomerSo many of us have grown up watching the Enterprise and crews explore planets, fight aliens, and have nail-biting escapes that we never question the science. How would transporters work? Photon torpedoes? How fast is Warp 9? This book examines the physics of space travel and our current state of the art (not even close). But theoretically.Yet as Krauss points out, that does not stop discussion of the latest Trek over coffee the following day, such as this: By the same token, not just light but all massless radiation must travel at the speed of light. This means that the many types of beings of pure energy encountered by the Enterprise, and later by the Voyager, would have difficulty existing as shown. In the first place, they wouldnt be able to sit still. Light cannot be slowed down, let alone stopped in empty space. Krauss, Lawrence M.. The Physics of Star Trek (p. 29). Basic Books. Kindle Edition.So, those Zetarians or DalRok would have correspondingly slowed senses of time in comparison to ours. He gives credit to the writers for those concepts they do right, and mentions where our current theories could support such plot devices.This volume must be read by all scify buffs. 5 Stars.0 of 0 people found the following review helpful. Good Read For TrekkiesBy Rock Hill ResidentWriting a positive review, because I wrote a negative review about another of this author's books. This was an enjoyable read. Any fan of Star Trek would learn a lot about why Star Trek physics are "impossible." Fun, but impossible. Mostly. I like books like this that can explain "how" things need to happen to achieve warp speed or beaming down. The book references all the series. A good read.2 of 2 people found the following review helpful. ... a Trekkie and a science nerd

this book was perfect. It was incredibly interesting and insightfulBy KenzieAs both a Trekkie and a science nerd this book was perfect. It was incredibly interesting and insightful. I learned a lot and would read it again. I would definitely recommend to anyone who loves star trek, science, or just learning.

An introduction to physics uses Star Trek as a reference point, explaining the intricacies of warp speed and describing the difference between a holodeck and a hologram.

.com Sure, we all know Star Trek is fiction, but warp drives and transporters and holodecks don't seem altogether implausible. Are any of these futuristic inventions fundamentally outlawed by physics as we understand it today? The Physics of Star Trek takes a lighthearted look at this subject, speculating on how the wonders of Star Trek technology might actually work--and, in some cases, revealing why the inventions are impossible or impractical even for an advanced civilization. (Example: "dematerializing" a person for transport would require about as much energy as is released by a 100-megaton hydrogen bomb). The Physics of Star Trek deserves merit for providing a refresher course on topics such as relativity and antimatter, but let's face it: the reason most people will want to read this book is simply that it's fun to poke holes in the premises of their favorite science fiction shows!From Publishers WeeklyEven those who have never watched an episode of Star Trek will be entertained and enlightened by theoretical physicist Krauss's adventurous investigation of interstellar flight, time travel, teleportation of objects and the possibility of extraterrestrial life. Case Western Reserve professor Krauss maintains that Star Trek's writers were sometimes far ahead of scientists?and famed astrophysicist Stephen Hawking's foreword, endorsing the possibilities of faster-than-light travel and journeying back in time, supports that notion. On the other hand, Krauss also argues that the show is riddled with bloopers and huge improbabilities, as when the Voyager's crew escapes from a black hole's interior. This informal manual for Trekkers offers a porthole on the wonders of the universe as it ponders the potential existence of aliens, "wormholes" that allow astronauts to tunnel through space, other dimensions and myriad baby universes. $75,000 ad/promo; BOMC and QPB alternates; Astronomy Book Club dual main selection; Library of Science, Natural Science Book Club and Newbridge Computer Book Club alternates. Copyright 1995 Reed Business Information, Inc.From Library JournalAlthough a bit more physics than Star Trek, this latest effort from the author of Fear of Physics (LJ 10/1/93) is another worthy attempt to coax the TV generation into the esoteric realm of such abstract curiosities as wormholes, time/space curvature, quantum particles, and the Heisenberg uncertainty principle. The strategy of drawing on the enormous familiarity of the Star Trek universe seems natural and intriguing, and the book certainly informs and entertains-to an extent. The cultural phenomenon of Star Trek is never fully integrated into the book, as the title would imply, with fewer, briefer references and no photos from any of the films or television series that might properly be expected. Krauss does provide memorable descriptions of the immense difficulties facing the actual development of various Star Trek technologies, particularly with the prohibitive energy requirement to power starships near or past the speed of light and the rather shocking operations necessary for transporters and replicators. For general readers.Patrick Dunn, East Tennessee State Univ. Lib., Johnson CityCopyright 1995 Reed Business Information, Inc.