



The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books

By Jeanne Cavelos

Download now

Read Online →

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos

Could the science fiction of *Star Wars* be the actual science of tomorrow?

- How close are we to creating robots that look and act like R2-D2 and C-3PO?
- Can we access a "force" with our minds to move objects and communicate telepathically with each other?
- How might spaceships like the *Millennium Falcon* make the exhilarating jump into hyperspace?
- What kind of environment could spawn a Wookiee?
- Could a single blast from the Death Star destroy an entire planet?
- Could light sabers possibly be built, and if so, how would they work?
- Do *Star Wars* aliens look like "real" aliens might?
- What would living on a desert planet like Tatooine be like?
- Why does Darth Vader require an artificial respirator?

Discover the answers to these and many other fascinating questions of physics, astronomy, biology and more, as a noted scientist and *Star Wars* enthusiast explores *The Science of Star Wars*.

 [Download The Science of Star Wars: An Astrophysicist's ...pdf](#)

 [Read Online The Science of Star Wars: An Astrophysicist's ...pdf](#)

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books

By Jeanne Cavelos

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos

Could the science fiction of *Star Wars* be the actual science of tomorrow?

- How close are we to creating robots that look and act like R2-D2 and C-3PO?
- Can we access a "force" with our minds to move objects and communicate telepathically with each other?
- How might spaceships like the *Millennium Falcon* make the exhilarating jump into hyperspace?
- What kind of environment could spawn a Wookiee?
- Could a single blast from the Death Star destroy an entire planet?
- Could light sabers possibly be built, and if so, how would they work?
- Do *Star Wars* aliens look like "real" aliens might?
- What would living on a desert planet like Tatooine be like?
- Why does Darth Vader require an artificial respirator?

Discover the answers to these and many other fascinating questions of physics, astronomy, biology and more, as a noted scientist and *Star Wars* enthusiast explores *The Science of Star Wars*.

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos Bibliography

- Sales Rank: #662859 in eBooks
- Published on: 2007-04-01
- Released on: 2007-04-01
- Format: Kindle eBook

 [Download The Science of Star Wars: An Astrophysicist's ...pdf](#)

 [Read Online The Science of Star Wars: An Astrophysicist' ...pdf](#)

Download and Read Free Online **The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books** By Jeanne Cavelos

Editorial Review

Amazon.com Review

Jeanne Cavelos says, "*Star Wars* fueled my interest in space exploration and the possibility of alien life," leading her to a career in astrophysics. While these movies have inspired her, she admits that may not have been their intention.

In creating the part science fiction/part fantasy/part myth that is *Star Wars*, George Lucas did not seek to create a futuristic universe that agreed perfectly with our current understanding of science.... How realistic, how possible, is this galaxy far, far away?

The answer when *A New Hope* first came out was "not at all." But a strange thing has happened in the years since *Star Wars* first came out. Science is beginning to catch up with George Lucas.

Cavelos looks at Lucas's planets, aliens, droids, technology, and Force with both rationality and affection. The droids R2-D2 and C-3PO, among others, become more interesting and almost credible after her consideration.

The element of *Star Wars* that is most true to science is the sense of wonder it calls forth, which has very little to do with how close it is to a possible future. Or, as Steve Grand, director of the Cyberlife Institute, said to Cavelos: "I never try to let scientific implausibility get in the way of a good story!" --*Mary Ellen Curtin*

From Publishers Weekly

The opening in May of the new *Star Wars* film has hardcore fans in a frenzy. Timed to release with *The Phantom Menace*, this book follows in the tradition of *The Physics of Star Trek* and Cavelos's own *The Science of the X-Files*. The author examines five major areas: planetary environments, aliens, droids, space ships and weapons, and the Force in sufficient detail to satisfy even knowledgeable fans. Take Luke's desert home world, Tatooine. When *Star Wars* first came out, scientists doubted the existence of planets in other solar systems, but since 1995 several have been found. Could a planet form around a binary star? Yes, but due to gravitational forces only if the stars were very far apart or very close, so as Luke gazes out at his two suns setting, he sees an accurate portrayal of a binary system. Most of the *Star Wars* aliens fare equally well. The Wookies' keen sense of smell, for example, would give them an alternative means of communication so that they might need to vocalize only with grunts and howls. Can the Force be with you? Physicist David Bohm posited a quantum potential force that would interpenetrate and bind together everything in the universe, but only Yoda knows if we can direct it with our minds. Cavelos's engaging style makes this book a treat, with no science background necessary. (May) FYI: *The Science of the X-Files* has been nominated for a 1998 Bram Stoker Award in the Nonfiction category.

Copyright 1999 Reed Business Information, Inc.

From School Library Journal

YA-Cavelos, an astrophysicist, mathematician, writer, and teacher, examines the science

behind George Lucas's popular series of movies, comparing his fictional universe with the universe as we currently understand it. She points out that in the two decades since the debut of *Star Wars: A New Hope*, science has come much closer to making Lucas's vision a reality. Rapid interstellar travel is theoretically possible. Extraterrestrial life is apparently more abundant than previously thought. Robots seem to need emotions to learn and interact effectively with humans. There may even be--dare we say it?--a Force. The writing is clear and geared toward readers with "no particular science background" although some is necessary. The author lightens the jargon with humor, and her examples for scientific principals and phenomena are apt. For example, Schrodinger's paradox is illustrated not by a cat in a box, but by Princess Leia in a cell. This book will appeal to the many fans of the films.

Susan Salpini, Purcellville Library, VA

Copyright 1999 Reed Business Information, Inc.

Users Review

From reader reviews:

Diane Numbers:

Book is to be different for every grade. Book for children until adult are different content. As you may know that book is very important normally. The book *The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books* has been making you to know about other knowledge and of course you can take more information. It is quite advantages for you. The reserve *The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books* is not only giving you far more new information but also being your friend when you feel bored. You can spend your spend time to read your book. Try to make relationship while using book *The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books*. You never experience lose out for everything in case you read some books.

Raymond Dahms:

As people who live in the modest era should be up-date about what going on or details even knowledge to make these people keep up with the era that is always change and move forward. Some of you maybe may update themselves by studying books. It is a good choice for you personally but the problems coming to anyone is you don't know which you should start with. This *The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books* is our recommendation to help you keep up with the world. Why, because this book serves what you want and need in this era.

Edna Vachon:

Reading a book to be new life style in this 12 months; every people loves to learn a book. When you learn a book you can get a lots of benefit. When you read books, you can improve

your knowledge, because book has a lot of information on it. The information that you will get depend on what kinds of book that you have read. If you want to get information about your research, you can read education books, but if you want to entertain yourself you are able to a fiction books, this kind of us novel, comics, as well as soon. The The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books provide you with new experience in examining a book.

Robert Williams:

Book is one of source of knowledge. We can add our expertise from it. Not only for students and also native or citizen require book to know the upgrade information of year to year. As we know those guides have many advantages. Beside all of us add our knowledge, may also bring us to around the world. From the book The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books we can acquire more advantage. Don't you to definitely be creative people? Being creative person must like to read a book. Just choose the best book that ideal with your aim. Don't always be doubt to change your life by this book The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books. You can more attractive than now.

Download and Read Online The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos #IHSBOQTU4G5

Read The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos for online ebook

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos books to read online.

Online The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos ebook PDF download

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos Doc

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos Mobipocket

The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos EPub

IHSBOQTU4G5: The Science of Star Wars: An Astrophysicist's Independent Examination of Space Travel, Aliens, Planets, and Robots as Portrayed in the Star Wars Films and Books By Jeanne Cavelos