



The Fabric of the Cosmos: Space, Time, and the Texture of Reality

By Brian Greene

[Download now](#)

[Read Online](#) 

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene

From Brian Greene, one of the world's leading physicists and author the Pulitzer Prize finalist *The Elegant Universe*, comes a grand tour of the universe that makes us look at reality in a completely different way.

Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past? Greene has set himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. From Newton's unchanging realm in which space and time are absolute, to Einstein's fluid conception of spacetime, to quantum mechanics' entangled arena where vastly distant objects can instantaneously coordinate their behavior, Greene takes us all, regardless of our scientific backgrounds, on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world.

 [Download The Fabric of the Cosmos: Space, Time, and the Tex ...pdf](#)

 [Read Online The Fabric of the Cosmos: Space, Time, and the T ...pdf](#)

The Fabric of the Cosmos: Space, Time, and the Texture of Reality

By Brian Greene

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene

From Brian Greene, one of the world's leading physicists and author the Pulitzer Prize finalist *The Elegant Universe*, comes a grand tour of the universe that makes us look at reality in a completely different way.

Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past? Greene has set himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. From Newton's unchanging realm in which space and time are absolute, to Einstein's fluid conception of spacetime, to quantum mechanics' entangled arena where vastly distant objects can instantaneously coordinate their behavior, Greene takes us all, regardless of our scientific backgrounds, on an irresistible and revelatory journey to the new layers of reality that modern physics has discovered lying just beneath the surface of our everyday world.

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene Bibliography

- Sales Rank: #11484 in Books
- Brand: Greene, Brian
- Published on: 2005-02-08
- Released on: 2005-02-08
- Original language: English
- Number of items: 1
- Dimensions: 8.00" h x 1.07" w x 5.20" l, 1.17 pounds
- Binding: Paperback
- 592 pages



[Download The Fabric of the Cosmos: Space, Time, and the Tex ...pdf](#)



[Read Online The Fabric of the Cosmos: Space, Time, and the T ...pdf](#)

Download and Read Free Online **The Fabric of the Cosmos: Space, Time, and the Texture of Reality** By Brian Greene

Editorial Review

Amazon.com Review

As a boy, Brian Greene read Albert Camus' *The Myth of Sisyphus* and was transformed. Camus, in Greene's paraphrase, insisted that the hero triumphs "by relinquishing everything beyond immediate experience." After wrestling with this idea, however, Greene rejected Camus and realized that his true idols were physicists; scientists who struggled "to assess life and to experience the universe at all possible levels, not just those that happened to be accessible to our frail human senses." His driving question in *The Fabric of the Cosmos*, then, is fundamental: "What *is* reality?" Over sixteen chapters, he traces the evolving human understanding of the substrate of the universe, from classical physics to ten-dimensional M-Theory.

Assuming an audience of non-specialists, Greene has set himself a daunting task: to explain non-intuitive, mathematical concepts like String Theory, the Heisenberg Uncertainty Principle, and Inflationary Cosmology with analogies drawn from common experience. For the most part, he succeeds. His language reflects a deep passion for science and a gift for translating concepts into poetic images. When explaining, for example, the inability to see the higher dimensions inherent in string theory, Greene writes: "We don't see them because of the *way* we see...like an ant walking along a lily pad...we could be floating within a grand, expansive, higher-dimensional space."

For Greene, Rhodes Scholar and professor of physics and mathematics at Columbia University, speculative science is not always as thorough and successful. His discussion of teleportation, for example, introduces and then quickly tables a valuable philosophical probing of identity. The paradoxes of time travel, however, are treated with greater depth, and his vision of life in a three-brane universe is compelling and--to use his description for quantum reality--"weird."

In the final pages Greene turns from science fiction back to the fringes of science fact, and he returns with rigor to frame discoveries likely to be made in the coming decades. "We are, most definitely, still wandering in the jungle," he concludes. Thanks to Greene, though, some of the underbrush has been cleared. --*Patrick O'Kelley*

From Publishers Weekly

String theory is a recent development in physics that, by positing that all which exists is composed of infinitesimally small vibrating loops of energy, seeks to unify Einstein's theories and those of quantum mechanics into a so-called "theory of everything." In 1999, Greene, one of the world's leading physicists, published *The Elegant Universe* (Norton), a popular presentation of string theory that became a major bestseller and, last fall, a highly rated PBS/Nova series. The strength of the book resided in Greene's unparalleled (among contemporary science writers) ability to translate higher mathematics (the language of physics) and its findings into everyday language and images, through adept use of metaphor and analogy, and crisp, witty prose. The same virtues adhere to this new book, which offers a lively view of human understanding of space and time, an understanding of which string theory is an as-yet unproven advance. To do this, Greene takes a roughly chronological approach, beginning with Newton, moving through Einstein and quantum physics, and on to string theory and its hypotheses (that there are 11 dimensions, ten of space and one of time; that there may be an abundance of parallel universes; that time travel may be possible, and so on) and imminent experiments that may test some of its tenets. None of this is easy reading, mostly because the concepts are tough to grasp and Greene never seems to compromise on accuracy. Eighty-five line drawings ease the task, however, as does Greene's felicitous narration; most importantly, though, Greene

not only makes concepts clear but explains why they matter. He opens the book with a discussion of Camus's The Myth of Sisyphus, setting a humanistic tone that he sustains throughout. This is popular science writing of the highest order, with copious endnotes that, unlike the text, include some math.

Copyright © Reed Business Information, a division of Reed Elsevier Inc. All rights reserved.

From [Bookmarks Magazine](#)

If the idea that time may travel in more than one direction hurts your brain, there's hope for you yet. Greene, author of *The Elegant Universe* and professor at Columbia University, designed this dazzling overview of physical reality for general readers (and kindly gives ample notice when he's about to delve into physics-speak). Using humorous examples from everyday life, from Larry King and Homer Simpson to earthworms, Greene animates thorny questions of space, time, and reality. Although he stresses speculative physics, he often dismisses some of its implications. And the illustrations don't add much. But Greene's enthusiasm and "excitement for science on the threshold of vital breakthroughs," notes *The New York Times*, "is supremely contagious."

Copyright © 2004 Phillips & Nelson Media, Inc.

Users Review

From reader reviews:

Dorothy Delarosa:

Here thing why this kind of The Fabric of the Cosmos: Space, Time, and the Texture of Reality are different and trusted to be yours. First of all reading through a book is good but it really depends in the content of it which is the content is as delicious as food or not. The Fabric of the Cosmos: Space, Time, and the Texture of Reality giving you information deeper including different ways, you can find any guide out there but there is no publication that similar with The Fabric of the Cosmos: Space, Time, and the Texture of Reality. It gives you thrill reading through journey, its open up your current eyes about the thing that will happened in the world which is might be can be happened around you. You can actually bring everywhere like in playground, café, or even in your method home by train. Should you be having difficulties in bringing the printed book maybe the form of The Fabric of the Cosmos: Space, Time, and the Texture of Reality in e-book can be your choice.

Susan Jun:

Do you certainly one of people who can't read satisfying if the sentence chained inside the straightway, hold on guys this kind of aren't like that. This The Fabric of the Cosmos: Space, Time, and the Texture of Reality book is readable simply by you who hate the straight word style. You will find the information here are arrange for enjoyable examining experience without leaving even decrease the knowledge that want to offer to you. The writer regarding The Fabric of the Cosmos: Space, Time, and the Texture of Reality content conveys the idea easily to understand by lots of people. The printed and e-book are not different in the information but it just different such as it. So , do you even now thinking The Fabric of the Cosmos: Space, Time, and the Texture of Reality is not loveable to be your top list reading book?

Cora Conte:

What is your hobby? Have you heard in which question when you got college students? We believe that that query was given by teacher on their students. Many kinds of hobby, All people has different hobby. Therefore you know that little person like reading or as looking at become their hobby. You need to understand that reading is very important in addition to book as to be the issue. Book is important thing to incorporate you knowledge, except your personal teacher or lecturer. You find good news or update regarding something by book. Many kinds of books that can you take to be your object. One of them is niagra The Fabric of the Cosmos: Space, Time, and the Texture of Reality.

Joan James:

Reading a publication make you to get more knowledge as a result. You can take knowledge and information coming from a book. Book is created or printed or illustrated from each source this filled update of news. Within this modern era like now, many ways to get information are available for an individual. From media social just like newspaper, magazines, science guide, encyclopedia, reference book, fresh and comic. You can add your knowledge by that book. Ready to spend your spare time to open your book? Or just in search of the The Fabric of the Cosmos: Space, Time, and the Texture of Reality when you necessary it?

Download and Read Online The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene #WPRZDJCA7L5

Read The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene for online ebook

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene 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 Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene books to read online.

Online The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene ebook PDF download

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene Doc

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene MobiPocket

The Fabric of the Cosmos: Space, Time, and the Texture of Reality By Brian Greene EPub