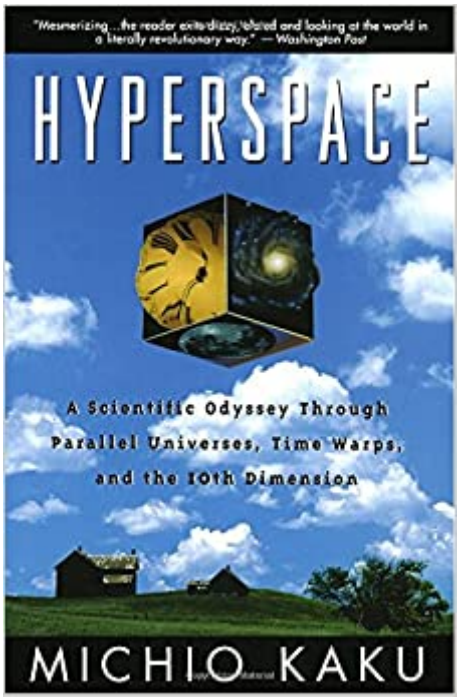
Hyperspace: A Scientific Odyssey Through Parallel Universes, Time Warps, And The 10th Dimension



Synopsis

The first book-length exploration of the most exciting development in modern physics, the theory of 10-dimensional space. The theory of hyperspace, which Michio Kaku pioneered, may be the leading candidate for the Theory of Everything that Einstein spent the remaining years of his life searching for.

Book Information

Paperback: 384 pages

Publisher: Anchor; Edition Unstated edition (February 1, 1995)

Language: English

ISBN-10: 0385477058

ISBN-13: 978-0385477055

Product Dimensions: 5.2 x 0.8 x 8 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 334 customer reviews

Best Sellers Rank: #57,144 in Books (See Top 100 in Books) #13 inÃ Â Books > Science & Math > Physics > Waves & Wave Mechanics #42 inÃ Â Books > Science & Math > Physics > Quantum Theory #97 inÃ Â Books > Science & Math > Astronomy & Space Science > Astrophysics & Space Science

Customer Reviews

How many dimensions do you live in? Three? Maybe that’s all your commonsense sense perception perceives, but there is growing and compelling evidence to suggest that we actually live in a universe of ten real dimensions. Kaku has written an extraordinarily lucid and thought-provoking exploration of the theoretical and empirical bases of a ten-dimensional universe and even goes so far as to discuss possible practical implications--such as being able to escape the collapse of the universe. Yikes. Highly Recommended.

Since ingesting Einstein’s relativity theory 50 years ago, physics fell down a quantum rabbit hole and, ever since, physicists’ reports to the world of popular science have been curiouser and curiouser. This version, from the author of the graduate text Quantum Field Theory , is very curious as he delineates the "delicious contradictions" of the quantum revolution: that the new paradigms of subatomic matter require the existence of "hyperspace," an ultimate universe of many dimensions, to accomodate their mostly mathematical behaviors. Unified field theory as it is currently understood

does not preclude any of the hypotheses that Kaku invites to this Mad Hatter's Theory Party: superstrings, parallel universes and, his centerpiece, time travel. Although occasionally facile, Kaku remains on solid theoretical ground up to the point of his untestable hypotheses, which lead to his more abstract arguments. In the past decade particle physics has lurched to astonishing contradictions and Kaku's adventurous, tantalizing book should not be penalized for promising more than present technology can test. His intellectual perceptions will thrill lay readers, SF fans and the physics-literate. Illustrations. Copyright 1994 Reed Business Information, Inc. --This text refers to the Hardcover edition.

For whatever reason, science becomes a mystery after you graduate from high school (unless you become a science major) and even stranger, its mysteriousness grows as you go further and further away from your high school age. But I bet many of us stay curious about what stays behind that shroud of mystery throughout our lives and often hear the call but never find a way to respond to it.If you are one such person, this book is for you. Make no mistake - you will not be able to understand the mystery behind ten dimensions and string theory any better than what you do today even after reading the book, but it will certainly help you to understand what those mysteries are.This book lays the foundation of what is generally called the String theory that explains everything in the universe with one single proposition. Whether the explanation or the theory is correct or not is not the subject matter of this book. It simply assumes it is correct. However, that is not really important. What is important is that how the book explains why it is necessary to have a single theory to advance our knowledge of this universe.And this it does without using any mathematical equation at all, except E = mc^2 (which it also does not attempt to prove). There is no other mathematical proof of any kind in this book, paving the way for general readers to a theory that is well known to be difficult even among scientists.In retrospect after reading this book for few times, I think that is in a way the best strength and the worst weakness of this book. It gives you the story but not the details of a scientific theory. You can not learn further based on the things that you learn here - you need to start from the beginning if you decide to learn the String theory in a scientific way.Or in other words, the book aptly reveals to you where the call comes from behind that mystery shroud, but it does not tell you why.

I guess I would have liked this book a lot more if I had read it before Brian Greene's excellent book, _The Elegant Universe_.Michio Kaku has a rare talent for being able to explain very complex and abstract systems and situations in terms that people who have not had a graduate level college

course in the subject can understand. He thus moves quite deftly from subject to subject, taking the time to explain things in terms that any reader should be able to understand.However, for a book on Science, Kaku gets caught up in discussions about things that did not contribute much to the text (although a discussion of God does not necessarily _detract_ from the book, it isnt what I was looking for).Kaku has written another book, _Visions_, which covers many of the subjects elaborated on in this book. I would suggest readers get the Visions book, and also pick up a copy of the much more modern and somewhat higher-brow book by Brian Greene, _The Elegant Universe_.Four stars because it is a good book, five if it were contemporary.

Amazingly well written. I had not read any of Kakus work before and was expecting a much more difficult to follow dry experience. Its a real genius that can convey such difficult subjects in a way that regular people can understand and appreciate. I was skeptical about a lot of this theory going into reading this and now can appreciate some of the beauty of hard core physics. You won't be calculating any rocket trajectories in the margins but you will be able to understand why physics is so fascinating and maybe even convey the same enthusiasm that he has to someone you know. I will be reading his other books soon.

I have an MA in French, so my knowledge of physics is extremely limited. I found this book both enjoyable and well written. As the book goes on, it isn't exactly an easy read, but even I could follow along. Beyond that, the simplified explanations by analogy and demonstration are both helpful and fascinating to reflect upon.I greatly enjoy the tone that the author takes in explaining everything. Much of what I appreciate about the work is the time that the author spends explaining the history of human thought in geometry and physics, and the effects that each revolutionary new thought and insight had, both in learned circles, as well as in the popular perception. Physicists coming to the defense of charlatans and spiritualists, ghosts moving through the fourth dimension, and a lot of other fun stuff.If you want a well-written introduction to String Theory, Quantum Theory, and a whole lot more, I'd start here.

The author explicates many facts of actual physics, particularly about strings. It is interesting to know because the strings are at 10 dimensions, This fact can go against the usual knowledge that we see only 3 dimensions, but Kaku observes that the other dimensions could exist in point of break with reality.An other fact which can interest the lector is that in a black-hole the information can be stopped because it doesn't go beyond the events horizon, fact named "cosmic censure". Therefore

this book contains many particularities and everyone can read those whom he prefers.

This book is exactly what I was expecting it to be, wonderful. It is a book that I'm reading slowly, to wrap my head around it all, big ideas in here.Arrived quickly, and it was just as I expected. It's a little more beat up that I'd wanted, but I think that may just be due to more love for the book. At least that is what I am thinking as I read it.I recommend this book to anyone curious about the building blocks of reality and the time-space continuum.

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