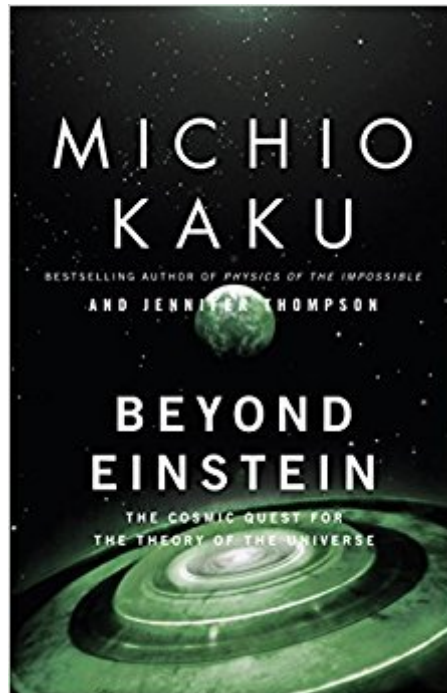




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# **Beyond Einstein: The Cosmic Quest For The Theory Of The Universe**



## Synopsis

Beyond Einstein takes readers on an exciting excursion into the discoveries that have led scientists to the brightest new prospect in theoretical physics today -- superstring theory. What is superstring theory and why is it important? This revolutionary breakthrough may well be the fulfillment of Albert Einstein's lifelong dream of a Theory of Everything, uniting the laws of physics into a single description explaining all the known forces in the universe. Co-authored by one of the leading pioneers in superstrings, Michio Kaku, the book approaches scientific questions with the excitement of a detective story, offering a fascinating look at the new science that may make the impossible possible.

## Book Information

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## Customer Reviews

Recently, the "superstring" theory, which asserts that all physical matter consists of extraordinarily minute vibrating strings, has been touted as the route to the long-sought unified theory of forces; some proponents call it a "theory of the universe" that will bring fundamental physics research to a closure. The first author of the present book is a researcher in the field who offers here one of the earliest superstring presentations for lay readers. The beginning chapters offer a not-very-good history of early 20th century physics, but the remainder of the work becomes livelier and more convincing as it approaches Dr. Kaku's own area of expertise. On the whole this is a fairly successful introduction to a new and exciting scientific area. Jack W. Weigel, Univ. of Michigan Lib., Ann Arbor

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he does a pretty decent job of explaining some of the truly mind-boggling ideas now being kicked around by physicists: eleven-dimensional superstrings, membranes in sub-sub-atomic space, mathematical super-symmetry ... But by managing to tie up all this heavy stuff to the real-life people whodream it up, Kaku and Thompson make it an absorbing read ... after reading this book, you should be able to impress your mates by having an opinion of your very own.'Robert Matthews, Focus --This text refers to an alternate Paperback edition.

A great book on the evolution to today's modern physics starting from the laws of Newton to Maxwell's unification of electricity and magnetism to quantum physics to today's unified theory of string theory. This book has basically the same material and themes as Michio's other book *Hyperspace*. So if you have already read that book, I wouldn't suggest buying and reading this book as it only has a little more detail than *Hyperspace*. I would have to say both books are pretty much the same in scope and material so you wouldn't learn anything new. Also, because both books were published around the mid nineties there wouldn't be any new updated information on the material. I like reading Michio's books as I am a lover of physics and science in general so I wasn't peeved that this book was pretty much the same as *Hyperspace*. It had been a while since I read *Hyperspace*, so I liked refreshing my mind on these theoretical physics concepts.

I bought M. Kaku's more recent book, "*Parallel Worlds*", but at the last minute decided to first read this book that was already on my bookshelf (along with "*Hyperspace*", another one by Kaku). I'm about halfway through and glad that I switched since this one starts from scratch (e.g. Newton) and ramps up over the first couple of chapters to the more current work being done. It's a nice way to put the newer work in context, as well as helping to provide a basis for the later reading. Not saying it's required -- my guess is that any book by M. Kaku would be an interesting "stand alone" read -- but I can say that this book is really enjoyable.

Popularizer of science Michio Kaku has made an attempt to explain the current view of sub-atomic particle physics to the science-interested layman in the book "*Beyond Einstein*," and I think he succeeds for the most part. There are a few failed attempts at explaining crucial concepts, but overall the book is lucid and logically structured. Theoretical physicists have been chasing down the "theory of everything" - one equation from which all other laws and principles of physics can be

derived - since Einstein first tried to unite gravity and electromagnetism. Kaku presents the history of this field, beginning with Newton and hitting the high points along the way- Maxwell, Einstein, Kaluza, Feynman, Gell-Mann, Schwarz, Glashow, Nambu, etc. The emphasis is on the physicists and their contributions to the field, as opposed to *Euclid's Window*, which traces the mathematicians behind the tools used in the theory of everything. I haven't yet read too many other books on the theory of everything, but Kaku's volume strikes me as impressive nonetheless. I think some pictures of the Lie groups would have helped the discussion of supersymmetry (and provide some gee-whiz effect as well, since they are indeed very beautiful). The authors' excitement and hope for the future of science literally jumps out of every page, which makes for an engaging read. This book is definitely worth your time. As a side note, I imagine this might make a great gift for someone taking physics in high school.

a+++++++ great seller great product

Real value for money product.

As usual, Mr. Kaku's writing is able to condense phenomenally interesting, and complicated, concepts into very readable material. The book also does not assume that the reader possesses any high level mathematical skill/knowledge. Excellent read.

Very informative book. It is about "visible universe" : ) If some concepts were presented with figures it would have been better. Furthermore, a glossary is needed. Written in 1995. It would be great if the new edition includes the latest research on string theory and related concepts.

In this time of profound darkness when the pseudo science sets back in the health of this nation with the measles epidemics pounding once a country leader in one more than one thing and also when the darkest ideas order people to kill their brethren, this book is a serious alternative for all the challenges of our modern world (MODERN!!!???? we are back into the 6 th century!!) gets us relaxed, makes us think that it was not religion but science and the industrial revolution who allows us all to destroy slavery....and promotes better conditions of life all over the planet for even people who would have not raised ever up to the industrial revolution, if only for their stuck mentalities unable to think out of the square box, but not for lack of intelligence, but yes for excessive obedience to ignorance Yes, I have a big hope and this comes through this type of Scientists with a

good based moral in old principles as well.

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