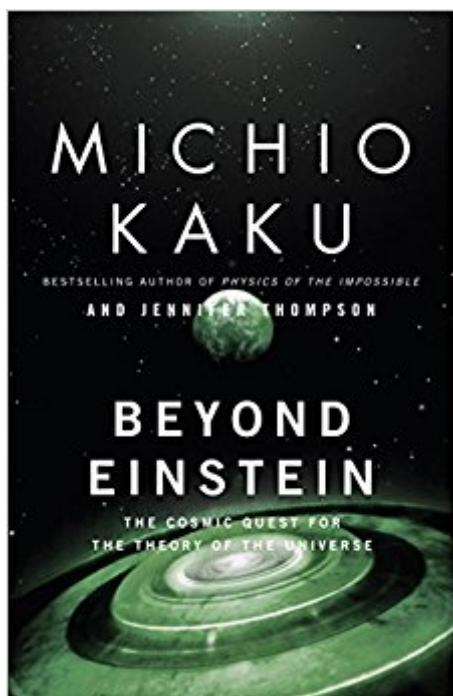


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# Beyond Einstein: The Cosmic Quest For The Theory Of The Universe



## **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, and completely revised and updated with the newest groundbreaking research, 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**

If you have even the slightest interest in theoretical physics, astronomy, or cosmology, READ THIS BOOK. Michio Kaku continues with "Beyond Einstein" in the proud tradition of its predecessor, "Hyperspace;" I read it as a sophomore in high school and couldn't put it down, and "Beyond Einstein" was no different. No prior knowledge of physics or mathematics is assumed; all you need is curiosity about how the world around you works. It is well-written and easy to understand, with just enough history to set the reader up for the science. This book will absolutely DAZZLE YOU!

This isn't Kaku's best book-its one of his earlier efforts and his writing skills have gotten quite a bit better since then. However I still recommend this book. At the time I read it, I was studying electrical

engineering in college and one day I ran into a friend in the student union. He started talking about all this physics stuff he was reading and how it was blowing his mind. It was like he had been through a religious conversion. He promised to let me borrow the book and it was Kaku's *Beyond Einstein*. A very easy read, Kaku got me hooked on physics right away, exposing me to ideas like extra dimensions and grand unified theories of particle physics I had never heard of in my engineering studies. He follows the standard historical treatment, talking about Maxwell, Einstein and the development of quantum mechanics. While it is a bit "breezy", its thoroughly enjoyable reading filled with historical antecdotes and nice descriptions of Einsteins spacetime warps. Then after the big bang he heads into his favorite topic, talking about extra dimensions and string theory. I was so hooked by this I began buying up every pop physics book I could find and soon changed my major from electrical engineering to math/physics. After reading Kaku engineering actually seemed mundane. Anyway, like I said this isn't Kaku's best book because his writing style has matured and he writes a lot better now. But the book is a gem that I recommend to those interested in science.

Although not as well written as, 'Hyperspace,' Michio Kaku has put complicated aspects and terms of cosmology and quests for unified field theories into a simple, easy to follow book by using many similies and metaphores. The book totally avoided explaining the concept of superstring theory, but instead it gave a lot of information that lead up to it. Nevertheless, I thoroughly enjoyed reading Dr. Kaku's new book because it gave lots of information about different theories that lead to superstring theory, such as: special relativity, general relativity, Maxwells theories, Newtons theories etc. The book also grasped the concept of understanding the beginning of the universe before and after the big bang, although not going into it in much scientifical detail. However, the big bang is totally theoretical and hard, infact impossible to explain omnisciently. The book has some diagrams; resultingly, making the comprehension of some ideas much easier. Dr. Kaku is indeed capable of better work, (not that this isn't good) he is by far one of the best autors of the understanding of space, in my opinion the only better autor is Steven Hawking himself. Dr. Kaku is an inspirational role model to me and I hope others agree. His books can be read by anyone from elementary school students to top physicists, due to the simplification of the terms of thought. The only people that I don't recomend this book to are the people totally interested in the science and detailed decriptions of superstring theory. Otherwise a Must to read!!!!!!!!!

I really liked this book. It found it easier to understand (and less gee-whiz) than Brian Greene's *The Elegant Universe* (paperback and CD). Kaku and his co-writer presented a very clear description of

what hyperspace would look like to four-dimensional creatures such as ourselves. (This was the first clear layman's description I have read.) I only wish I understood better the quantum mechanics that "vanquished" Newton's and Einstein's propositions about gravity in very small spaces; perhaps some drawings would have helped. In addition, perhaps a chart or diagram of basic sub-atomic particles would have helped. Nevertheless, I was intrigued by the book. Thompson's co-writing makes it intelligible to lay persons such as myself. The one element that Kaku leaves out is whether string or superstring theory is "testable." In dimensions of the size of  $10^{-18}$  cm, perhaps we cannot really make testable predictions, as Greene asserts in his book and CD.

This rambling survey of modern particle physics and cosmology reads well, but ultimately one has to ask, "where's the meat?" Granted, these topics are so esoteric and abstract that trying to relate them to everyday experience is nigh impossible, but a few authors (e.g, Richard Feynman and Steve Adams) have been able to accomplish this. Kaku flits from one subject to another, reciting a canon of gee-whiz observations (such as John Wheeler's suggestion that there may be only one electron in the universe, traveling back and forth in time), but he offers no logical structure upon which these conjectures are based. The book reads more like a collection of fables and fairy tales than a scientific treatment. BEYOND EINSTEIN could arguably be recommended for those who have never done any reading on particle physics whatsoever, but for those who have already looked into it, the book will probably disappoint.

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