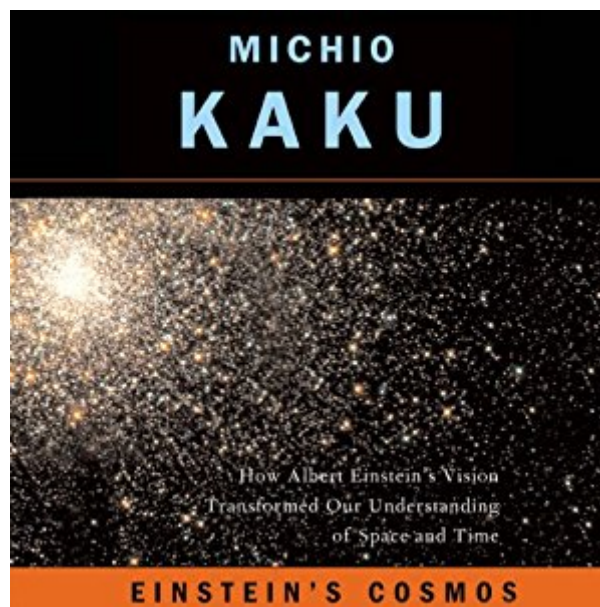




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# Einstein's Cosmos: How Albert Einstein's Vision Transformed Our Understanding Of Space And Time: Great Discoveries



## Synopsis

A dazzling tour of the universe as Einstein saw it. How did Albert Einstein come up with the theories that changed the way we look at the world? By thinking in pictures. Michio Kaku, leading theoretical physicist (a cofounder of string theory) and best-selling science storyteller, shows how Einstein used seemingly simple images to lead a revolution in science. Daydreaming about racing a beam of light led to the special theory of relativity and the equation  $E = mc^2$ . Thinking about a man falling led to the general theory of relativity giving us black holes and the Big Bang. Einstein's failure to come up with a theory that would unify relativity and quantum mechanics stemmed from his lacking an apt image. Even in failure, however, Einstein's late insights have led to new avenues of research as well as to the revitalization of the quest for a "Theory of Everything". With originality and expertise, Kaku uncovers the surprising beauty that lies at the heart of Einstein's cosmos.

## Book Information

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## Customer Reviews

Einstein's Cosmos is an engaging, quick read. It is a nice blend of biography and science, and it is written in Kaku's customary clear style. Kaku does a great job explaining some of Einstein's insights to nonspecialist readers, although in later chapters his explanations become less clear. Perhaps it is simply the case that explaining relativity theory is simpler than explaining attempts at unifying relativity and quantum mechanics. Overall, though, Einstein's Cosmos is a highly enjoyable read for the non-physicist.

If you have any interest whatsoever in physics or Einstein, you should stop reading this review and buy this book immediately. I learned so much from reading this book, that I ended up buying more books on physics, as well as Richard Feynman's lectures (Six Easy Pieces) and then even starting taking online physics courses. From reading this book, I discovered that I have a true affinity for physics and science that I never even realized. Michio Kaku writes this book with the same easy style as he's written his other books. He dumbs it down for you, but he never talks down to you. The information is delivered in a manner where the reader can actually absorb what's being said. Otherwise, you'd have a bunch of mumbo-jumbo about quanta, atoms and neutrons that would bore you to tears by the time you reached the third page. This book is written like an really smart, laid-back guy is sitting across from you at a coffee shop just chatting away to you about what he knows of Einstein and physics. This is no text book! Mr. Kaku doesn't bombard you with the terminology. Instead, when he introduces the terminology, theories or explanations to you he first explains the theory and then gives you a real-world comparison, enabling the reader to actually envision what's being explained. The explanation of the bending of space and time in a text book would warp some brain cells, right? Instant migraine. Not here! Mr. Kaku delivers the basic premise in such a manner with a real-world explanation, enabling the reader to not only "get it," but also to encourage and provoke the reader to want to know more. I could sit here all day and write about what I've learned about the Theory of Relativity and the Theory of Special Relativity and String Theory (or M Theory), but why not buy the book and read about it for yourself? You're going to love Schrodinger's Cat! Trust me here, folks. It's flipping AMAZING. This book is great for adults and teenagers alike.

Even though Einstein's theories are now over a hundred years old, they are still the grail of physics. Just a few days ago, gravity waves were confirmed observing two black holes orbiting one another. I don't much understand relativity, but I understand quantum theory even less. What I enjoyed most in the book is the story of Einstein's personal struggles and cognitive supersession over his dogmatic teachers, dissenting fellow academics and arrogant ignorant Nazis. All the while, maintaining his sense of humor. Humanity owes a great debt to this man. Without his moral guidance, we might not have survived 20th Century malevolence. Thank you, Albert. Hope you're riding your bicycle thru some wormhole.

I have read many of Michio Kaku's other books about theoretical physics, and found myself loving this one as well. As other reviewers have stated, the book is divided into three parts, all of which are very manageable. I recommend this book because it is incredibly easy to understand even for

someone with no background in physics. Kaku manages to make extremely complex material very easy to understand, and I loved his use of Einstein's "pictures" like chasing a beam of light. That being said, this book does have a little biography of Einstein, which was the part that I had to really push myself to get through because I am more interested in the theory than in the man himself. If you are looking for anything super in-depth about Einstein or his work, this is probably not the book for you, but it is perfect for a normal, inquisitive person because it reads more like a novel than a science book. I would recommend this book to anyone looking for a background on Einstein and his work.

Amazing read by the great Dr. Michio Kaku. This book takes you on a journey of Einstein's mind and the visual representations that helped form the basis of his theories. The legacy of Einstein will forever remain strong and may we soon find the solutions to the Unified Field Theory so that we can have a more accurate representation of what the cosmos truly is. We are insignificant... let's find out how insignificant and push humanity forward to explore the cosmos and beyond!

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