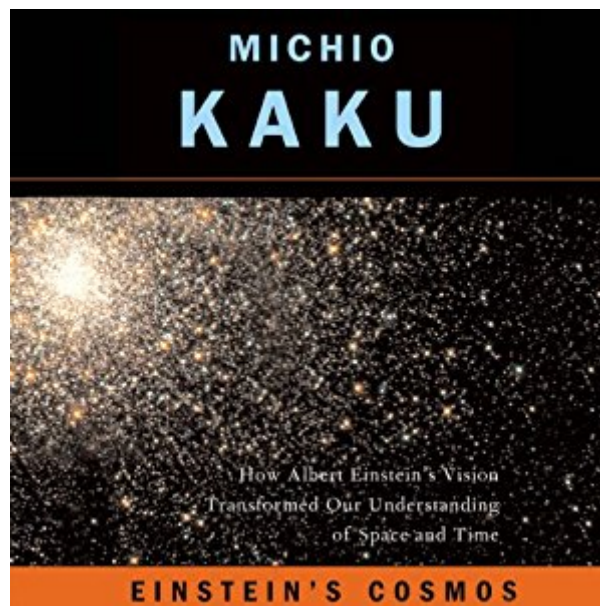


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# Einstein's Cosmos: How Albert Einstein's Vision Transformed Our Understanding Of Space And Time: Great Discoveries



## 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

+++++This book, by Dr. Michio Kaku, deals with three main themes that are intertwined together:(1)The life of Dr. Albert Einstein (March 1879 to April 1955)(2)The all-important science of Einstein(3)The important scientific contributions of others and some insight into their lives.This slim book contains three parts each made up of three surprisingly easy-to-read chapters. Below I will give the title of each chapter (not necessarily the same as the book's) and what I consider to be the highlights of each chapter. For chapter nine, I will provide a overview only.Part I:(1) Physics before EinsteinThe scientific discoveries of Isaac Newton and James Clerk Maxwell.(2) The Early Years of EinsteinEinstein in school; Einstein and religion; Einstein's introduction to science, mathematics,

and philosophy; his thinking; his loves; Einstein and authority; Einstein begins working for a living; his marriage.(3) Special Relativity and the "Miracle Year of 1905"Einstein's first thought picture; two simple principles by Einstein that "mark the most profound insights into the nature of the universe since Newton's work;" his famous equation; Einstein explains the photoelectric effect; he gives the first experimental proof of the existence of atoms; Einstein receives his Ph.D.: Einstein's guiding principle in physics; Experimental evidence confirms some of Einstein's ideas; Einstein becomes a professor of physics; the famous "twin paradox;" his marriage begins to "unravel;" Einstein meets his second love.

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