

1: The Universe in a Nutshell - Stephen W. Hawking, STEPHEN W AUTOR HAWKING - Google Books

What if we could find one single equation that explains every force in the universe? Dr. Michio Kaku explores how physicists may shrink the science of the Big Bang into an equation as small as.

Its aim is not just listing some topics, but introducing modern physics by examining current scientific answers, although not complete, to fundamental questions like: Where did we come from? Why is the universe the way it is? Was there the beginning of time? Is there an ultimate theory that can explain everything? I have read the first edition when I was a high school student around , and this book is the revised version revised in . Compared to the first version, there are little changes. But there is one noticeable change in his point of view on the ultimate theory. According to him, recent findings on "dualities" seem to indicate that it would not be able to express an ultimate theory in a single fundamental formation. Instead, we may have to apply different theories to different situations, but in the areas which they overlap, they must coincide. The book has a lot of merits. Firstly, non-native English users including myself would feel comfortable and find it easy to read. In the sense, he is better than other English scientific authors like R. Secondly, the level of the book is well-chosen for general readers and the total page number is just less than pages. If they read the book, at least, they would be able to learn more about how the universe began, how the stars have been formed, and how we have come here as the result of the evolution of the universe. More than that, the book contains interesting stories of some Nobel Prize winners in physics with their results related to the mentioned fundamental questions. Thirdly, among the physicists who have contributed in searching an ultimate theory, the author himself is distinguished. He showed that a black hole radiates light, so we can say that a black hole is not completely black. Up to the time he presented this theory, everyone believed that a black hole can only absorb everything around it, but radiates nothing. To find the ultimate theory, we have to consolidate general relativity and quantum mechanics, but the two theories are inconsistent in many cases. But Hawking skillfully applied both of them to black holes, and obtained the result. Smolin regards his finding as a starting point toward the ultimate theory. That we can read a book where Hawking himself explains about his theory for general readers is thrilling. As I mentioned above, this is my second reading of the book. When I first read the book as a high school student, it was impressive for him to explain that at the beginning of the universe, there was a singularity where the energy density is infinite, and so the law of physics including general relativity, cannot hold. But at the second reading, I found out that what Hawking really wanted to say was not that we cannot know the beginning of the universe, but that we need another theory that can explain the beginning by considering both general relativity and quantum mechanics. Actually, in the book, he introduces his "no boundary" theory which explains it without the singularity. But this theory has been neither verified nor disproved by experiments until now. Here is my advice for a reader. Less than pages, the book contains a lot of things and the author does his best in explaining them easily. For example, its explanation about the history from the beginning of the universe to the first living things on earth is outstanding. And about time travel, its arguments are ever clear and reasonable for me. But, in a few parts, the explanations are just sketchy, so if a reader is not already an expert, he could not fully understand them. When you meet such parts, just move forward. The most important thing is to learn some things and enjoy the reading.

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The Universe in a Nutshell ALSO A BLACK HOLES BY STEPHEN BRIEF AND HISTORY BABY HAWKING OF T I M E U N I V E R S E S AND O T H E R ESSAYS The Universe LONDON.

3: The Universe In A Nutshell : Stephen Hawking :

Stephen Hawking, stated in, " The Universe in a Nutshell" that our history is filled with infinite potentiality and what we "got" was due to disturbing the quantum field by our "observations." Profound, I thought, and pondered about his theory

THE UNIVERSE IN A NUTSHELL FULL pdf

for months. To better understand Dr. Hawking's theory.

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Short Description of Book - The Universe in a Nutshell is a book about theoretical physics by Stephen Hawking.

5: Stephen William Hawking - The Universe in a Nutshell Audiobook

What if we could find one single equation that explains every force in the universe? Dr. Michio Kaku explores how physicists may shrink the science of the Big Bang into an equation as small as Einstein's "e=mc²".

6: The Universe In A Nutshell by Stephen Hawking - Penguin Books Australia

The Universe in a Nutshell - Stephen Hawking (Bantam Press,) 1. The Universe in a Nutshell 2. ALSO BY STEPHEN HAWKING A BRIEF HISTORY OF TIME BLACK HOLES AND BABY UNIVERSES AND OTHER ESSAYS.

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The Universe in a Nutshell reflects Hawking's growing fame and the reputation of his earlier book in being of much higher production value, with many full-color illustrations and other elements.

8: Summary/Reviews: The universe in a nutshell /

Stephen Hawking book "The Universe in a Nutshell" is a sequel to his famous "Brief History of Time" and brings to our attention some discoveries and findings in the theories of the universe that happened in almost 15 years since the first, book was published.

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