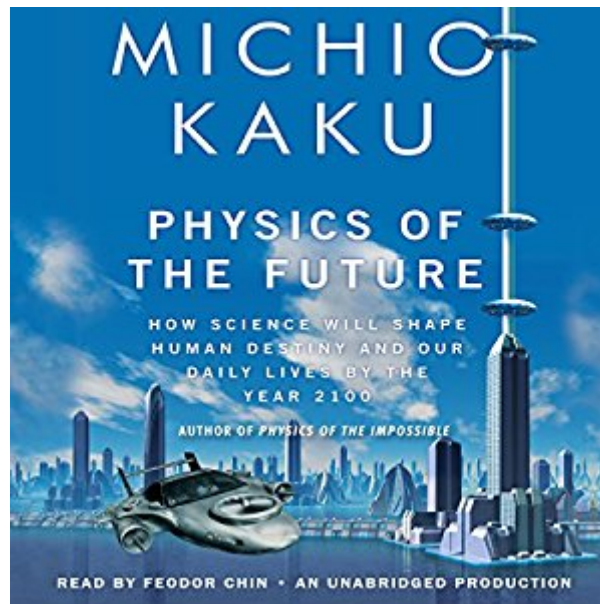


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# Physics Of The Future: How Science Will Shape Human Destiny And Our Daily Lives By The Year 2100



## Synopsis

Imagine, if you can, the world in the year 2100. In *Physics of the Future*, Michio Kaku—the New York Times best-selling author of *Physics of the Impossible*—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with over 300 of the world’s top scientists who are already inventing the future in their labs. In all likelihood, by 2100 we will control computers via tiny brain sensors and, like magicians, move objects around with the power of our minds. Artificial intelligence will be dispersed throughout the environment, and Internet-enabled contact lenses will allow us to access the world’s information base or conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if room-temperature superconductors are discovered, vehicles will effortlessly fly on a cushion of air, coasting on powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases. Millions of tiny DNA sensors and nanoparticles patrolling our blood cells will silently scan our bodies for the first sign of illness, while rapid advances in genetic research will enable us to slow down or maybe even reverse the aging process, allowing human life spans to increase dramatically. In space, radically new ships—vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps visit nearby stars. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world economy. Synthesizing a vast amount of information to construct an exciting look at the years leading up to 2100, *Physics of the Future* is a thrilling, wondrous ride through the next 100 years of breathtaking scientific revolution.

## Book Information

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## Customer Reviews

I'm a huge fan of Michio Kaku's books, and "The Physics of the Future" is definitely not a disappointment. The book offers an expansive view of future technologies, and takes a new approach: Kaku plays journalist and interviews over 300 other top scientists in a variety of fields. The result is that you get the insights of those experts, but presented through the lens of Kaku's own deep understanding of physics and of what is ultimately likely to be possible or not. Even though Kaku carefully grounds everything within the limits of the laws of nature, his specific predictions turn out to be pretty aggressive. He foresees technologies like "retinal display" contact lenses that connect directly to the internet, driverless cars, the mixing of real and virtual reality, and software "robotic doctors" that might replace most people's initial visit to the doctor and "correctly diagnose 95% of common ailments." Kaku is also optimistic about progress in medicine, biotech and nanotechnology suggesting that we'll have medical "tricorders" like the ones on Star Trek, miniature nanobots coursing through our veins, advanced gene therapy, and maybe designer children. He even envisions that aging might be reversed and a nanotechnology "replicator" that would be able to construct almost anything from individual atoms might be possibilities by the year 2100. Kaku also believes that computers, artificial intelligence and robots will advance rapidly, even though he foresees a possible slow down in the rate of improvement as Moore's Law potentially hits a wall. He's more conservative than people like Ray Kurzweil, suggesting that we might have true artificial intelligence or even conscious machines, but not until the end of the century.

Physics of the Future by Michio Kaku "Physics of the Future" is a fabulous, thought-provoking, engaging and accessible book on the physics of the future. What sets this book apart, is Dr. Kaku's prodigious knowledge and his innate ability to convey complex topics in an engaging conversational manner. This fantastic 416-page book is composed of the following nine chapters: 1. Future of the Computer: Mind over Matter, 2. Future of AI: Rise of the Machines, 3. Future of Medicine: Perfection and Beyond, 4. Nanotechnology: Everything from Nothing?, 5. Future of Energy: Energy from the Stars, 6. Future of Space Travel: To the Stars, 7. Future of Wealth, 8. Future of Humanity: Planetary Civilization, and 9. A Day in the Life in 2100. Positives: 1. Engaging scientific writing for the masses. Dr. Kaku gets it and he knows how to relay his knowledge in a lucid and entertaining manner. 2. Great format. Each chapter begins with a couple of chapter appropriate quotes, an appetizer of an

introduction (with a little mythology analogy for good measure) and then broken out by three subchapters: Near Future (Present to 2030), Midcentury (2030 to 2070), and Far Future (2070 to 2100).3. Great use of popular culture to make his points easy to convey. The use of popular Sci-Fi movies to explain complex concepts is brilliant.4. A fantastic idea of a book and I couldn't be happier that Dr. Kaku is the mastermind behind it. Great wisdom throughout.5. Great science for all to enjoy. The future looks fascinating.6. Finally, a fun, profound yet accessible book about physics of the future.7. This book is like the behind the scenes look at the science behind the best Sci-Fi movies ever. Excellent!8.

First, I'm a big fan of Michio, which is why I purchased the book. But I've noticed a frustrating pattern with his books over the years, he dumbs down the concepts he writes about more and more with each book. Okay, I get it, speaking to the lowest common denominator is important to get your message across. But remember, Michio, you need to speak to the lowest common denominator of people who read books about physics. Unfortunately, this seems to be lost on Michio. This book barely even covers any physics until the second half of the book, and even then the book is mostly about implementations of technology. I estimate that 80% the first 2/5 of the book covers medicine, genetics and other life sciences concepts. But what is perhaps most disappointing about this book, is Michio's fantastic underestimation of how fast our technology will progress in the coming years. (In order to avoid spoilers I will try to speak in generalities for the most part) In the introduction to the book, Michio clearly explains that "prototypes of all the technologies mentioned...already exist". Fine, it's great that Michio had the best intentions by making predictions based on "real" and "tangible" examples. Unfortunately what ends up happening is that Michio predicts with awe and reverence how, for example, 30 to 70 years from now "augmented reality" will be accessible to everyone, and the examples he gives for how augmented reality will change our lives are just, well, boring, trite, and seriously underestimate the power of this concept. How do I know?

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