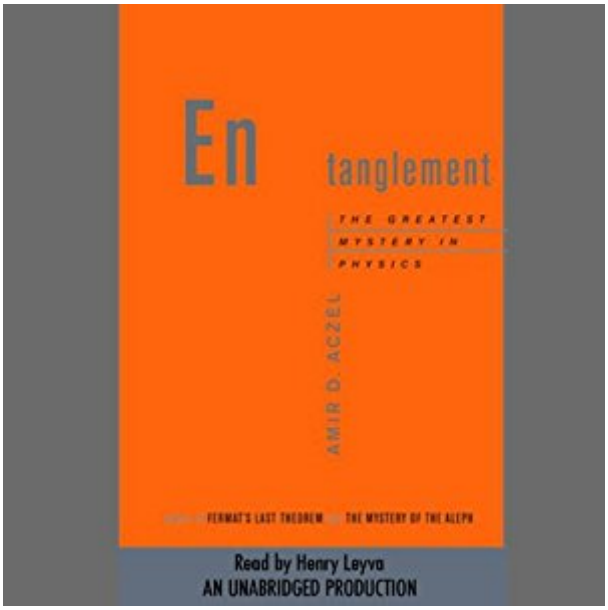
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Entanglement: The Greatest Mystery In Physics



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Synopsis

Could 'Beam me up, Scotty' soon become a reality? The lines between 'science' and 'science fiction' have become increasingly blurred. Now, quantum mechanics promises that some of humanity's wildest dreams may be realized. Serious scientists, working from Einstein's theories, have been investigating the phenomenon known as 'entanglement' one of the strangest aspects of our strange universe. According to Einstein, quantum mechanics required entanglement, the idea that subatomic particles could become linked and that a change to one such particle would instantly be reflected in its counterpart, even if separated by a universe. Einstein felt that if quantum theory could produce such bizarre effects, then it had to be invalid. But new experiments show not only that it does happen, but that it may lead to unbreakable codes and even teleportation, perhaps in our lifetimes. This is a highly accessible yet technically well researched introduction to the bizarre phenomenon of entanglement and the scientists who have helped to discover it. The book provides an excellent introduction to a complex but exciting branch of science that could have significant implications for our understanding of the world and the way we live. ÃƒÂ¢ Amir D. Aczel is an internationally known author and speaker who attracts large crowds ÃƒÂ¢ We have all seen teleportation in science fiction. This book shows how it could become a reality. ÃƒÂ¢ The first book to explain the theory of entanglement and to make recent developments in quantum mechanics widely available. ÃƒÂ¢ Gives an insight into the lives and thinking of some of the leading physicists of the past century. --This text refers to an out of print or unavailable edition of this title.

Book Information

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Customer Reviews

A great 101 book.

A delightful read of the research and researchers that contributed to Quantum Mechanics and the mystery of Entanglement. I have not finished it yet but I am nearly done. Since it is published in 2001 (another kind of Space Odyssey), I would like a sequel from 2001 to present time by Dr. Aczel.

Einstein’s did not believe that Universe may be changing or expanding, despite the fact, that his equations of GR were telling him opposite. He introduced Cosmological Constant in order to boost his believes. He was not right, but since 1998 his constant has become a Lambda force, the most important constant of the Nature and in cosmology science.Einstein’s skepticism surfaced again in 1935, when he questioned quantum theory, the one he contributed to immensely by describing the "photoelectric effect".Einstein was calling quantum theory "incomplete" according to his notions of realism and locality. What experiments and knowledge has been developed later, we can learn reading Amir Aczel book. Will "entanglement" phenomena become as important for modern quantum science as Lambda force for today’s cosmology? We do not know it at this time. Essentially Amir Aczel’s book describes CERN theorist John Bell’s theorem (1966) as a tool for probing certain unknown quantum properties. I believe this book could have been written better. First 122 pages elegantly presents history of classic quantum physics from Young to famous Einstein-Podolsky-Rosen’s paper. Classic quantum formulas are introduced with a sense of measure. However the Copenhagen Interpretation of the quantum theory is barely mentioned and explained. Later book gets less clear. Many experiments have been performed around the world in order to prove that Einstein was wrong, but pictures of difficult instrumentations often lack of proper connectivity with text and adequate explanations.More about entangled states and quantum information can be found in Scientific American magazine (November 2002).

This book takes you into a normal person’s historical view on quantum physics with a focus on the subject of entanglement. It explains the subject in clear non mathematical, non Calculus language for those of us not too clear on its manipulation. The book is a good read and worth taking the plunge besides you will understand your everyday reality a bit better.

Amazing book. Takes you into the experimental details of quantum entanglement. Amazing and intriguing. If you are any curious about the quantam phenomena you have to read this book. I love this book and I read twice already.

Quantum entanglement dare.

The majority of the book is a review of the history of physics leading up to the current understanding of entanglement, including much biographical information about the major players in the quantum mechanics arena. I would have liked to see more than just that last short chapter talking about the implications and possibilities of entanglement.

I have read many science books. This one was has a strong start but then petters out. The problem is that when he tries explain the experiments involved to prove entanglement is real, its just impossible to understand what he saying. I have read other books on these experiments and have been able to understand them. He just seems to loose his interest in clear writing about half through the book.

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