

The future of the mind

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2014 book Michio Kaku Future of Reason: Scientific Search to Understand, Improve and Empower Mind Hardcover EditionAutormMicio Kaku Strange StatesLanguageEnglishGenrePopular SciencePublisherDoublePublication Date February 25, 2014Media typePrint (Hardcover) Pages400 pages AwardsNo.1 New York Times Bestseller ISBN978-0385530828 Caused Physics of the Future Followed by the Future of Humanity Future of Reason: Scientific Search to Understand, Improve and Empower the Mind is a non-fiction book by futurist and physicist Michio Kaku. The book was first published on February 25, 2014 by Doubleday. In 2015, the book was translated into Hebrew. Book Review discusses the various possibilities of advanced technologies that can change the brain and mind. Looking at such things as telepathy, telekinesis, consciousness, artificial intelligence and transhumanism, the book covers a wide range of topics. In it, Kaku proposes the theory of space-time consciousness. Like Ray Kurzweil, he believes that advances in silicon computing will serve our needs, not produce a generation of robot overlords. Receiving on March 16, 2014, Future of Mind made number one on The New York Times bestseller list. References to Dreams in Code: The Future of Mind by Michio Kaku. The New York Times. Received on June 23, 2014. The Future of Mind: A Scientific Search to Understand, Improve and Empower the Mind, Hardcover, February 25, 2014, Michio Kaku. amazon.com. Received 2014-11-26. ^ העתיד של המוח (2015). קאקו, מיצ'יו (in Hebrew). רמות השבילים: הוצאת אריה ניר. - THE FUTURE MIND, Michio Kaku. (Double day,)) Received 2014-11-26. External link in publisher (help) External links Michio Kaku official website Booksite This article about a book about futures research or futurology is a stub. You can help Wikipedia by expanding it.vte extracted from #1 NEW YORK TIMES BESTSELLER! MICHIO KAKU solves the most fascinating and complex object in the known universe: the human brain. FUTURE OF THE MIND brings a theme that once belonged exclusively to the province of science fiction in a startling new reality. This scientific tour de force reveals amazing research that is conducted in the best laboratories around the world - all based on recent advances in neuroscience and physics - including recent experiments in telepathy, mind control, avatars, telekinesis, and recordings of memories and dreams. FUTURE OF THE MIND is an extraordinary, stunning study of the boundaries of neuroscience. Dr. Kaku looks at the day when we can achieve the ability human brain to computer, neuron for neuron; Project thoughts and emotions around the world on the brain network; Take smart pills to enhance cognition; send our consciousness across the universe; and push the very limits of immortality. For excerpts from THE MIND, click here. Available in paperback, hardcover, Kindle, audio CD, and audible. For the full library of Dr. Michio Kaku's books, click here. Visit Dr. Kaku's Facebook fan page to connect more than 3 million FUTURE OF THE MIND fans to the online community with interviews, exclusive events and fan-only content. Resumo Detalhes do artigo Garanties Acess'rios inclu'dos ver todas as caracter'sticas 4 novos Marketplace desde 13.64 - 13.64 - Custos de envio No 0 17.56 - Coustos de Envio Custos de envio No0 - 17.74 - Custos de envio No0 - Satisfeitoou reembolsado Levantamentogratiso em loja PagamentosSeguros Devolu'es gratuitas em loja For many centuries the universe and consciousness have been two of the greatest mysteries for many philosophers and scientists. Interestingly, physicists like Francis Crick and Christoph Koch are among many others engaged in this fascinating field of research. In the Future of Mind, Michio Kaku, a theoretical physicist, also approaches this topic. What is consciousness? Is it possible to explain this by the laws of physics? and, with such advances in technology that we can expect o For many centuries, the universe and consciousness have been two of the greatest mysteries for many philosophers and scholars. Interestingly, physicists like Francis Crick and Christoph Koch are among many others engaged in this fascinating field of research. In the Future of Mind, Michio Kaku, a theoretical physicist, also approaches this topic. What is consciousness? Is it possible to explain this by the laws of physics? and, with such advances in technology, what can we expect from this topic for the future? The book is divided into three main parts: Book I (Mind and Consciousness), Book II (Mind Over Matter) and Book III (Changed Consciousness), and I will mention several thoughts on some topics of each book. Book IAs in many books that are approaching this complex and fascinating topic of neuroscience, the Future of mind introduces the reader to the basic generalizations of neuroanatomy and neurophysiology. In addition, some background stories, starting with the famous case of Phineas Gage, which led to an understanding of the important role that the frontal lobe plays on behavior, as well as the study of Wernicke and Brock's patients to understand the language, the pseudoscience of Joseph Gall's phrinology and Dr. Penfield's homek, which is a generalized map of the motor cortex we still find useful today in medical texts. These cases are important because they mark neuroscience. Honestly, I would have loved a great chapter that included more neuroscientists such as Nobel laureate Ramon Ramon y Cajal's work on neurons or the first psychiatrist Dr. Meynert, who was a professor at Freud's School of Medicine in Vienna, leading to one of the most important theories of the mind we had and which the author does not discuss. Kaku also introduces the reader to the evolutionary history of the brain (reptiles-----human) being the neocortex of our higher evolutionary structure involved in higher cognitive functioning. The introductory information is very accurate, but very generalized, and you can easily find it in many books related to neuroscience. So, where do we stand today in neuroscience? How can we understand how our brains work and what we still lack? Many useful high-tech devices that were created to understand our brains thanks to the four forces that control our universe, some of these machines are: MRI, MRI, DBS and optogenetics, all based on electromagnetic force, except pet scanning, which is governed by weak force. It is worth noting that as new technological devices are invented, so are analogies with the functioning of our brains, such as the hydraulic model, the telephone model, and now the computational theory of the mind. The author does not leave behind, and creates an analogy of the subconscious, as the CEO, obviously representing the prefrontal cortex ... Our rational thought, the area that plans and helps you make decisions. While Kaku doesn't talk about Freuds Theory of Mind, what I found interesting was his space-time theory of consciousness defined as: Consciousness is the process of creating a model of the world using multiple feedback cycles in different parameters (e.g. in temperature, space, time and relative to others) in order to achieve the goal (e.g., find companions, food, shelter). According to this idea animals create their goal based more on the environment and space and humans base more this model on the relationship with age. It gives this theory three levels of consciousness, which basically refers to the evolutionary structures of our brains. Level I will be that of reptiles and Level II, which includes the limbic system needed for relationships to be what mammals brain. Finally, Level III of the human brain is defined as the following: Human consciousness is a specific form of consciousness that creates a model of the world and simulates in time, assessing the past to simulate the future. This requires mediating and evaluating many feedback loops in order to make an image to achieve the goal. Based on this definition, we use our model or view of the world, analyzing previous experiences and memories of people or events and use it all for future and therefore making the decisions we have considered appropriate for a favourable outcome. If this theory of space-time is accurate, Kaku says it can give us the definition of self-awareness: Self-awareness creates a model of the world and mimics the future in which you appear. About Memory: What do you think about the idea of downloading memory or perhaps learning new complex skills (Matrix style) and casting our intelligence with new software? The ability to create or experience new memories, or share them just as we upload our photos over the Internet, live a new journey or love experience, or memories of loved ones have already passed away that will cause us to lose the difference from our innate self and fake memories??? Will it ever be possible? I think about the amazing opportunities it can bring for patients suffering from amnesia, and it is also interesting to know the use of optogenetics to activate or close memories such as those in patients with PTSD. What is the function of memory in our evolutionary process and why are they so important to us? That is the ability to predict the future and act and make decisions according to this experience, this is the main reason why people are smart. I also applaud Kaku's approaching prior as the protein theme involved in Alzheimer's disease (tau amyloid proteins) and CREB genes role in memory formation... pretty accurate, but I insist this is another topic I would have liked it expanded more details. Sometimes it seemed like reading a special edition of a scientific journal. Book III. Altered Consciousness: Dreams, Mind Control, Artificial Intelligence, Altered States of Consciousness, Reverse Engineering in the Brain and Alien Brain. In the chapter Altered State of Consciousness, which I really liked, Kaku approaches OCD, schizophrenia and hallucinations with enough neurology for each disorder and talks about where we are right now regarding management and the possibilities of how science will approach them in the future. Once again, it gives us a definition of most forms of mental illness based on its space-time theory of consciousness: Mental illness is largely caused by the violation of delicate checks and balances between competing feedback cycles that mimic the future (usually because one area of the brain is about reactive or insufficiently active)Some hospitals today use DBS (Deep Brain Stimulation) , a small probe inserted into the brain and the application of electroshocks As a pacemaker, many disorders like depression, Parkinson's and epilepsy or even comma patients are treated. Until now, DBS and pharmacotherapy have been the best way to manage these cases, but not the optimal condition, sometimes just to improve symptoms. Molecular approach to also helped neurobiochemicry is many disorders and the primary goal that can guide new and more specific treatments. Now, the BRAIN initiative is expected to complete a detailed map of the brain at a nervous level with the ability to understand the exact pathophysiology behind disorders like Alzheimer's, Parkinson's, dementia or bipolar disorder and hopefully upcoming technologies can give us a better approach to help many of these patients in a successful way. Can you imagine the possibility of a paralyzed patient moving through the use of a microchip inserted into his brain? So the information provided by Michio Kaku is accurate, and I could probably dwell on each topic and discuss the many thoughts that I have in mind related to neuroscience, from evolution to artificial intelligence, but I have to leave you with something to read yourself. His theory of space-time consciousness is good and useful, and he tries to demonstrate its application throughout the book. Also, Kaku uses many analogies and examples with books and movies including Star Trek, Star Wars or Planet of the Apes, a space odyssey of 2001 and many other fictional characters to put the reader on the subject, and it was quite funny to see his geek side, especially if you love them. So, what can we expect in the near future with regard to treatment and technology? Is there really an alien intelligence there? Is it possible that artificial intelligence can ever develop consciousness and make decisions for us like Hal 9000? Will we continue to evolve and give a big step to the next Homo evolutis or Star Child or have we reached our limitations? Read the book and let your mind present all the possibilities that science can give to our human race in the future! Fantastic journey! ... More... 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