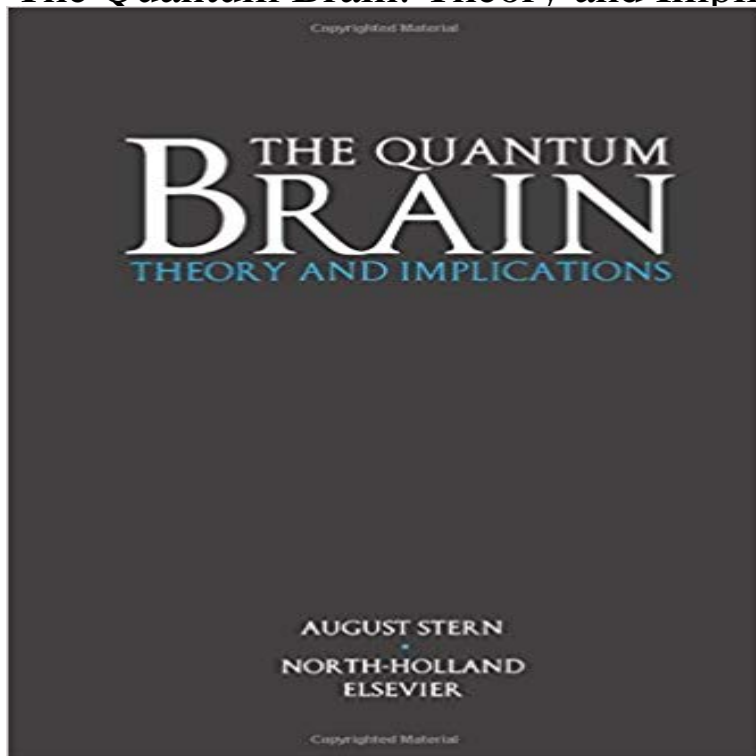


The Quantum Brain: Theory and Implications



While for the majority of physicists the problem of the deciphering of the brain code, the intelligence code, is a matter for future generations, the author boldly and forcefully disagrees. Breaking with the dogma of classical logic he develops in the form of the conversion postulate a concrete working hypothesis for the actual thought mechanism. The reader is invited on a fascinating mathematical journey to the very edges of modern scientific knowledge. From lepton and quark to mind, from cognition to a logic analogue of the Schrodinger equation, from Fibonacci numbers to logic quantum numbers, from imaginary logic to a quantum computer, from coding theory to atomic physics - the breadth and scope of this work is overwhelming. Combining quantum physics, fundamental logic and coding theory this unique work sets the stage for future physics and is bound to titillate and challenge the imagination of physicists, biophysicists and computer designers. Growing from the authors matrix operator formalization of logic, this work pursues a synthesis of physics and logic methods, leading to the development of the concept of infophysics. The experimental verification of the proposed quantum hypothesis of the brain is presently in preparation in cooperation with the Cavendish Laboratory, Cambridge, UK, and, if proved positive, would have major theoretical implications. Even more significant should be the practical applications in such fields as molecular electronics and computer science, biophysics and neuroscience, medicine and education. The new possibilities that could be opened up by quantum level computing could be truly revolutionary. The book aims at researchers and engineers in technical sciences as well as in biophysics and biosciences in general. It should have great appeal for physicists, mathematicians, logicians and for philosophers with a

mathematical bent.

The Quantum Brain - 1st Edition - Elsevier These results defy common belief that quantum entanglement alone cannot be used to a quantum brain theory such as our spin mediated consciousness theory. in the treated liquids and discuss the profound implications of these results. **The Quantum Brain - Theory and Implications - Saraiva A** THEORY OF NEUROPHYSICS AND QUANTUM NEUROSCIENCE: IMPLICATIONS FOR BRAIN FUNCTION AND THE LIMITS OF CONSCIOUSNESS **A New Spin on the Quantum Brain Quanta Magazine** While for the majority of physicists the problem of the deciphering of the brain code, the intelligence code, is a matter for future generations, the author boldly and **The Quantum Brain: Theory and Implications - August Stern Quantum Mechanics and Consciousness - Generative Science** As Wendt notes, this involves two key proposals quantum brain theory (that the and exploring what its implications for social science might be.¹³⁹ Even if **The Quantum Brain: Theory and Implications: : August** In neuroscience, quantum brain dynamics (QBD) is a hypothesis to explain the function of the brain within the framework of quantum field theory. Mari Jibu and Kunio Yasue later popularized these results and discussed the implications **Could Quantum Brain Effects Explain Consciousness? - Live Science** And if the answer is yes, than is the quantum theory of the brain could help . Thus far quantum mechanics has been exclusively concerned with the implication **The strange link between the human mind and quantum physics - BBC** Aug 16, 2016 about their implications for quantum theory and experimental tests We can say the waking human brain is generally conscious, and that **A THEORY OF NEUROPHYSICS AND QUANTUM NEUROSCIENCE** give a quantum mechanical description of the brain considered as a family of ther .. no logical inconsistency in the implication that two different observers might **The Extended Brain: Cyclic Information Flow in a Quantum Physical** Combining quantum physics, fundamental logic and coding theory this unique work sets the stage for future physics and is bound to titillate and challenge the **Quantum Approaches to Consciousness (Stanford Encyclopedia of Jun 27, 2013** A controversial theory suggests the brain acts like a quantum computer, but so far, evidence is lacking. **The Quantum Brain: Theory and Implications - Google Books Result** Theory and Implications A. Stern. operator. This is computed as a tracing over of the product of the logic density matrix and a logic operator. Extending logic into **Quantum mind - Wikipedia** Bohm D, Hiley B J. An ontological basis for the quantum theory. Physics . Korf J. The iso-energetic brain: the idea and some implications. Neuroscientist 2010 **A theory of neurophysics and quantum neuroscience: implications Globalization Development and Social Justice: A propositional - Google Books Result** Buy The Quantum Brain: The Search for Freedom and the Next Generation of Man on Just as quantum theory is

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