



Schrodinger s Killer App: Race to Build the World s First Quantum Computer (Paperback)

By Jonathan P. Dowling

Taylor Francis Inc, United States, 2013. Paperback. Book Condition: New. 234 x 155 mm. Language: English . Brand New Book. The race is on to construct the first quantum code breaker, as the winner will hold the key to the entire Internet. From international, multibillion-dollar financial transactions to top-secret government communications, all would be vulnerable to the secret-code-breaking ability of the quantum computer. Written by a renowned quantum physicist closely involved in the U.S. government's development of quantum information science, Schrodinger s Killer App: Race to Build the World s First Quantum Computer presents an inside look at the government's quest to build a quantum computer capable of solving complex mathematical problems and hacking the public-key encryption codes used to secure the Internet. The killer application refers to Shor s quantum factoring algorithm, which would unveil the encrypted communications of the entire Internet if a quantum computer could be built to run the algorithm. Schrodinger s notion of quantum entanglement-and his infamous cat-is at the heart of it all. The book develops the concept of entanglement in the historical context of Einstein s 30-year battle with the physics community over the true meaning of quantum theory. It discusses...



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