



## A book review of “Dancing with Qubits” by Dr. Robert Sutor

by Keeper L. Sharkey, PhD

See my 5 star review on [amazon.com](https://www.amazon.com)

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**Title:** Dancing with Qubits: How Quantum Computing Works and How it can Change the World.

**Author:** Robert Sutor [www.robertsutor.com](http://www.robertsutor.com) @snarky\_android

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*Dancing with Qubits* is a must-read for people interested in learning more about quantum physical concepts and computing in general. The book is a great review of the current state of the industry with each page thoughtfully designed. The reader is welcomed by a clean and useful table of contents and the author’s style is colloquial, even humorous at times, making an otherwise tedious topic easy to digest and fun to explore. The book provides sufficient details while also leaving more to be learned, providing thoughtful references throughout.

The book highlights the significance of industry contributors throughout history and details developments in quantum computing as they relate to relevant topics. Images of scientists are included adding a human element. The paragraphs are wonderfully short and concise. Example problems are taught with a very detailed explanation of the “magic tricks” in physics and mathematics, and leave no stone unturned. Dr. Sutor even shows alternate ways to get to the same answer in several cases.

The first of two main parts of the book is written in such a way that an eager high school student can seek and comprehend the content presented, I applaud this. The first part is delivered as a comprehensive review of classical computing, number theory, geometry topics that are relevant to the quantum world to name a few. The author elegantly provoked a youthful, inquisitive spirit while I was reading, and I reminisced being a teenager learning the concepts he reintroduces and further expands upon. The second part gives new students a taste of what pursuing quantum computing really looks like, while also providing industry and academia a valuable resource of centralized information. He does not, however, expand upon all of the postulates of quantum mechanics, various chemistry applications of qubit design, or specific details of the magnetic spin for different particles - nor provides an extensive explanation for how quantum computing relies upon the comprehension of these phenomena; that is left up to the reader to learn more about.

In summary, *Dancing With Qubits* is an excellent book for anyone looking to connect important dots in the topics of mathematics, computer science, and physics to expand their understanding of computing and capacity with regard to quantum information. I look forward to recommending this book to a general audience and do think that Dr. Sutor successfully emphasized how quantum computing can change the world. I will give a review of 5/5 stars.