



Problems and Solutions in Quantum Computing and Quantum Information (3rd Edition)

By Willi-Hans Steeb, Yorick Hardy

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Quantum computing and quantum information are two of the fastest growing and most exciting research fields in physics. Entanglement, teleportation and the possibility of using the non-local behavior of quantum mechanics to factor integers in random polynomial time have also added to this new interest. This book supplies a huge collection of problems in quantum computing and quantum information together with their detailed solutions, which will prove to be invaluable to students as well as researchers in these fields. All the important concepts and topics such as quantum gates and quantum circuits, product Hilbert spaces, entanglement and entanglement measures, teleportation, Bell states, Bell inequality, Schmidt decomposition, quantum Fourier transform, magic gate, von Neumann entropy, quantum cryptography, quantum error corrections, number states and Bose operators, coherent states, squeezed states, Gaussian states, POVM measurement, quantum optics networks, beam splitter, phase shifter and Kerr Hamilton operator are included. The topics range in difficulty from elementary to advanced. Almost all problems are solved in detail and most of the problems are self-contained.

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Review

Review of the 2nd Edition:

"This is a nice collection of standard problems and solutions, the latter being formulated on a level as elementary as possible. So it is especially useful for students who want to become acquainted with quantum information and computation. It is also useful for lecturers when they have to prepare exercises."

--Zentralblatt MATH

From the Inside Flap

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