

Quantum Algorithms



An Introduction To Quantum Computing Algorithms

Ioan Burda



An Introduction To Quantum Computing Algorithms:

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An Introduction to Quantum Computing Phillip Kaye, Raymond Laflamme, Michele Mosca, 2006-11-17 This concise accessible text provides a thorough introduction to quantum computing an exciting emergent field at the interface of the computer engineering mathematical and physical sciences Aimed at advanced undergraduate and beginning graduate students in these disciplines the text is technically detailed and is clearly illustrated throughout with diagrams and exercises Some prior knowledge of linear algebra

is assumed including vector spaces and inner products However prior familiarity with topics such as quantum mechanics and computational complexity is not required **Introduction to Quantum Algorithms** Johannes A. Buchmann, 2024-03-18

Quantum algorithms are among the most important interesting and promising innovations in information and communication technology They pose a major threat to today's cybersecurity and at the same time promise great benefits by potentially solving previously intractable computational problems with reasonable effort The theory of quantum algorithms is based on advanced concepts from computer science mathematics and physics *Introduction to Quantum Algorithms* offers a mathematically precise exploration of these concepts accessible to those with a basic mathematical university education while also catering to more experienced readers This comprehensive book is suitable for self study or as a textbook for one or two semester introductory courses on quantum computing algorithms Instructors can tailor their approach to emphasize theoretical understanding and proofs or practical applications of quantum algorithms depending on the course's goals and timeframe *Introduction to Quantum Algorithms via Linear Algebra, second edition* Richard J. Lipton, Kenneth W.

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