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# Principles of Quantum Computation and Information

Volume I: Basic Concepts

World Scientific

# Principles Of Quantum Computation And Information

**Giuliano Benenti, Giuliano Strini, Giulio  
Casati**



## **Principles Of Quantum Computation And Information:**

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N.B. Singh, Quantum Computing is a comprehensive and accessible exploration of one of the most exciting and rapidly evolving fields in modern science Written with both beginners and advanced enthusiasts in mind this book offers a captivating journey through the world of quantum computing without the need for complex mathematical formulas With 50 engaging chapters covering a wide range of topics readers will discover the fascinating principles behind quantum mechanics and how they are harnessed to revolutionize computing cryptography telecommunications and even our understanding of consciousness and the universe itself From the basics of qubits and superposition to advanced applications like quantum cryptography and artificial intelligence this book presents complex concepts in a clear and easy to understand manner making it suitable for readers of all backgrounds Whether you re a curious novice or a seasoned quantum enthusiast Quantum Computing offers a captivating glimpse into the extraordinary possibilities of the quantum world

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*Quantum Computing: A Shift from Bits to Qubits* Rajiv Pandey, Nidhi Srivastava, Neeraj Kumar Singh, Kanishka Tyagi, 2023-03-29 The edited book is a consolidated handbook on quantum computing that covers quantum basic science and mathematics to advanced concepts and applications of quantum computing and quantum machine learning applied to diverse domains The book includes dedicated chapters on introduction to quantum computing its practical applications the working behind quantum systems quantum algorithms quantum communications and quantum cryptography Each challenge that can be addressed with quantum technologies is further discussed from theoretical and practical perspectives The book is divided into five parts Part I Scientific Theory for Quantum Part II Quantum Computing Building Concepts Part III Quantum Algorithms Theory Applications Part IV Quantum Simulation Tools Demonstrations and Part V Future Direction and Applications



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