Foundations of Quantum Programming

Mingsheng Ying

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Foundations of Quantum Programming discusses how new programming methodologies and technologies developed for current computers can be extended to exploit the unique power of quantum computers, which promise dramatic advantages in processing speed over currently available computer systems. Governments and industries around the globe are now investing vast amounts of money with the expectation of building practical quantum computers. Drawing upon years of experience and research in quantum computing research and using numerous examples and illustrations, Mingsheng Ying has created a very useful reference on quantum programming languages and important tools and techniques required for quantum programming, making the book a valuable resource for academics, researchers, and developers.

- Demystifies the theory of quantum programming using a step-by-step approach
- Covers the interdisciplinary nature of quantum programming by providing examples from many different fields including, engineering, computer science, medicine, and life sciences
- Includes techniques and tools to solve complex control flow patterns and synchronize computations
- Presents a coherent and self-contained treatment that will be valuable for academics and industrial researchers and developers

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