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Quantum Algorithms and Quantum Languages

By Vipin Mishra

LAP Lambert Acad. Publ. Jun 2011, 2011. Taschenbuch. Condition: Neu. Neuware - Quantum Computation is an interdisciplinary field formed by the merge of quantum effect, information theory and algorithms. The future of computing lies with the quantum computers which may be a hypothetical paradigm but surely will be a reality very soon. This book describes about some quantum algorithms and programs which will prove as the foundation of quantum computers in the years to come. In quantum computers we exploit quantum effects to compute in ways that are faster or more efficient than, or even impossible, on conventional computers. Quantum computers use a specific physical implementation to gain a computational advantage over conventional computers. Properties called superposition and entanglement may, in some cases, allow an exponential amount of parallelism. Also, special purpose machines like quantum cryptographic devices use entanglement and other peculiarities like quantum uncertainty. Quantum computing combines quantum mechanics, information theory, and aspects of computer science. The field is a relatively new one that promises secure data transfer, dramatic computing speed increases, and may take component miniaturization to its fundamental limit. 72 pp. Englisch.



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