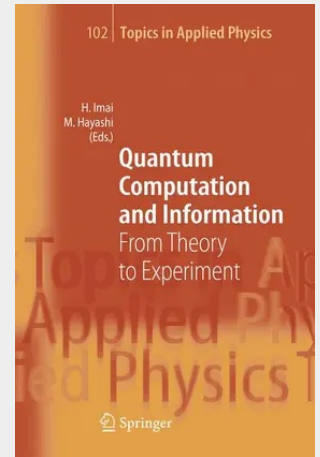


Quantum Computation and Information

From Theory to Experiment

Recently, the field of quantum computation and information has been developing through a fusion of results from various research fields in theoretical and practical areas. This book consists of the reviews of selected topics characterized by great progress and cover the field from theoretical areas to experimental ones. It contains fundamental areas, quantum query complexity, quantum statistical inference, quantum cloning, quantum entanglement, additivity. It treats three types of quantum security system, quantum public key cryptography, quantum key distribution, and quantum steganography. A photonic system is highlighted for the realization of quantum information processing.

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246,09 €

229,99 € (zzgl. MwSt.)

sofort versandfertig, Lieferzeit: 1-3 Werktage

Artikelnummer: 9783540331322

Medium: Buch

ISBN: 978-3-540-33132-2

Verlag: Springer-Verlag GmbH

Erscheinungstermin: 07.07.2006

Sprache(n): Englisch

Auflage: 2006. 2006

Serie: Topics in Applied Physics

Produktform: Gebunden

Gewicht: 1320 g

Seiten: 280

Format (B x H): 161 x 242 mm

