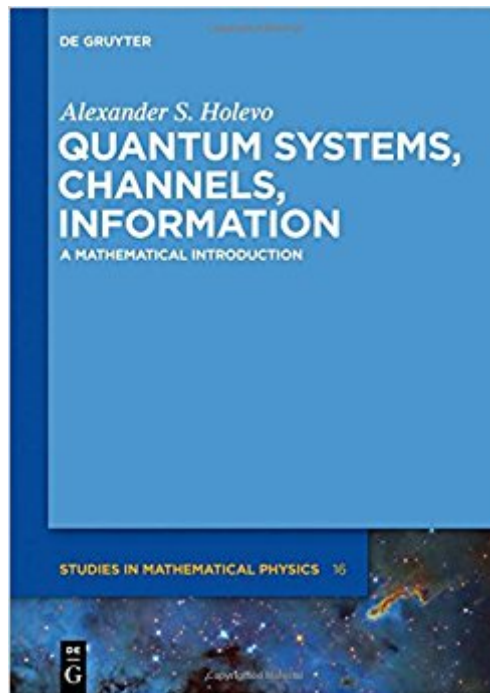




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Quantum Systems, Channels, Information (de Gruyter Studies In Mathematical Physics)



Synopsis

The main emphasis of this work is the mathematical theory of quantum channels and their entropic and information characteristics. Quantum information theory is one of the key research areas, since it leads the way to vastly increased computing speeds by using quantum systems to store and process information. Quantum cryptography allows for secure communication of classified information. Research in the field of quantum informatics, including quantum information theory, is in progress in leading scientific centers throughout the world. The past years were marked with impressive progress made by several researchers in solution of some difficult problems, in particular, the additivity of the entropy characteristics of quantum channels. This suggests a need for a book that not only introduces the basic concepts of quantum information theory, but also presents in detail some of the latest achievements.

Book Information

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Alexander S. Holevo, Steklov Mathematical Institute, Moscow, Russia.

This is a wonderful book. While written by a mathematician, it uses a language adapted to the needs of a layman physicist. Offers a comprehensive introduction; so the first chapters can be used as a textbook. Then introduces pretty advanced methods that have appeared in journal papers but have never been presented in books so far.

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