

《量子计算与信息原理，卷一》

图书基本信息

书名：《量子计算与信息原理，卷一》

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作者：Benenti, Giuliano/ Casati, Giulio/ Strini, Giuliano

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内容概要

Quantum computation and information is a new, rapidly developing interdisciplinary field. Therefore, it is not easy to understand its fundamental concepts and central results without facing numerous technical details. This book provides the reader a useful and not-too-heavy guide. It offers a simple and self-contained introduction: no previous knowledge of quantum mechanics or classical computation is required. Volume 1 may be used as a textbook for a one-semester introductory course in quantum information and computation, both for upper-level undergraduate students and for graduate students. It contains a large number of solved exercises, which are an essential complement to the text, as they will help the student to become familiar with the subject. The book may also be useful as general education for readers who want to know the fundamental principles of quantum information and computation and who have the basic background acquired from their undergraduate course in physics, mathematics, or computer science.

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