

1.	Record Nr.	UNIBAS000003313
	Autore	Orcutt, William Dana
	Titolo	The Spell / by William Dana Orcutt
	Pubbl/distr/stampa	Bologna : Società Generale della Messagerie Italiane, [s. d.] London ; New York : Harper & Brothers, [s. d.]
	Descrizione fisica	351 p., [30] c. di tav. ; 19 cm.
	Disciplina	813
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910784341003321
	Autore	Le Bellac Michel
	Titolo	A short introduction to quantum information and quantum computation // Michel Le Bellac ; translated by Patricia de Forcrand-Millard [[electronic resource]]
	Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2006
	ISBN	1-107-16766-3 0-511-75536-8 0-511-64846-4 0-511-21941-5 0-511-56896-7 0-511-22009-X
	Descrizione fisica	1 online resource (x, 167 pages) : digital, PDF file(s)
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	Disciplina	004.1
	Soggetti	Quantum computers Quantum theory
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Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 161-163) and index.
Nota di contenuto	Cover; Half-title; Title; Copyright; Contents; Foreword; Preface; 1 Introduction; 2 What is a qubit?; 3 Manipulating qubits; 4 Quantum correlations; 5 Introduction to quantum computing; 6 Physical realizations; 7 Quantum information; References; Index
Sommario/riassunto	Quantum information and computation is a rapidly expanding and cross-disciplinary subject. This book, first published in 2006, gives a self-contained introduction to the field for physicists, mathematicians and computer scientists who want to know more about this exciting subject. After a step-by-step introduction to the quantum bit (qubit) and its main properties, the author presents the necessary background in quantum mechanics. The core of the subject, quantum computation, is illustrated by a detailed treatment of three quantum algorithms: Deutsch, Grover and Shor. The final chapters are devoted to the physical implementation of quantum computers, including the most recent aspects, such as superconducting qubits and quantum dots, and to a short account of quantum information. Written at a level suitable for undergraduates in physical sciences, no previous knowledge of quantum mechanics is assumed, and only elementary notions of physics are required. The book includes many short exercises, with solutions available to instructors through <a href="mailto:solutions@cambridge.org">solutions@cambridge.org</a> .