1. Record Nr. UNINA9910494598703321

Autore	McCartin Lyda
Titolo	Toward a critical-inclusive assessment practice for library instruction / / Lyda McCartin and Rachel Dineen
Pubbl/distr/stampa	Sacramento, California : , : Library Juice Press, , [2018] ©2018
ISBN	1-63400-071-4
Descrizione fisica	1 online resource (xi, 149 pages) : illustrations
Disciplina	025.5677
Soggetti	Library orientation for college students - Evaluation Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.

2. Record Nr. UNINA9910373933303321

Autore	Scherer Wolfgang
Titolo	Mathematics of Quantum Computing : An Introduction / / by Wolfgang Scherer
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-12358-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIX, 764 p. 816 illus.)
Disciplina	530.12
Soggetti	Quantum computers Spintronics Computers Mathematical physics Quantum Information Technology, Spintronics Quantum Computing Theory of Computation Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Basic Notions of Quantum Mechanics -- Tensor Products and Composite Systems -- Entanglement -- Quantum Gates and Circuits for Elementary Calculations -- On the Use of Entanglement -- Error Correction -- Adiabatic Quantum Computing -- Epilogue Appendices: A Elementary Probability Theory -- B Elementary Arithmetic Operations -- C LANDAU Symbols -- D Modular Arithmetic -- E Continued Fractions -- F Some Group Theory -- G Proof of a Quantum Adiabatic Theorem -- Solutions to Exercises.
Sommario/riassunto	This textbook presents the elementary aspects of quantum computing in a mathematical form. It is intended as core or supplementary reading for physicists, mathematicians, and computer scientists taking a first course on quantum computing. It starts by introducing the basic mathematics required for quantum mechanics, and then goes on to present, in detail, the notions of quantum mechanics, entanglement, quantum gates, and quantum algorithms, of which Shor's factorisation

and Grover's search algorithm are discussed extensively. In addition, the algorithms for the Abelian Hidden Subgroup and Discrete Logarithm problems are presented and the latter is used to show how the Bitcoin digital signature may be compromised. It also addresses the problem of error correction as well as giving a detailed exposition of adiabatic quantum computing. The book contains around 140 exercises for the student, covering all of the topics treated, together with an appendix of solutions.