

1. Record Nr.	UNISA996395600903316
Titolo	By the Lords Justices General, and General Governors of Ireland. A proclamation [[electronic resource]] : Berkeley, Gallway. Whereas upon the disbanding of the ten late regiments under-named, .
Pubbl/distr/stampa	Dublin : , : Printed by Andrew Crook, printer to the King's most Excellent Majesty, on the Blind-Key, 1699
Descrizione fisica	1 sheet ([1] p.) : coat of arms
Altri autori (Persone)	Berkeley of StrattonWilliam Berkeley, Baron, <d. 1741.> GalwayHenri de Massue, Earl of, <1648-1720.> MayH. <fl. 1697.>
Soggetti	Proclamations17th century.Ireland Broadsides17th century.Ireland
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from caption and opening lines of text. Signed: H. May. At end of text: Given at His Majesty's castle of Dublin, the thirtieth day of October, 1699. For the payment of arrears of half-pay officers. Text printed chiefly in black letter. Reproduction of original in: National Library of Scotland--Crawford Collections.
Sommario/riassunto	eebo-0097

2. Record Nr.	UNINA9910792245903321
Autore	Vedral Vlatko
Titolo	Introduction to quantum information science [[electronic resource] /] / Vlatko Vedral
Pubbl/distr/stampa	Oxford, : Oxford University Press, c2006
ISBN	0-19-967348-9 1-280-75839-2 0-19-152698-3 1-4294-7034-8
Descrizione fisica	1 online resource (194 p.)
Collana	Oxford graduate texts
Disciplina	004.1 530.12 539
Soggetti	Quantum communication Quantum theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; PART I: CLASSICAL AND QUANTUM INFORMATION; 1 Classical information; 1.1 Information and physics; 1.2 Quantifying information; 1.3 Data compression; 1.4 Related measures of information; 1.5 Capacity of a noisy channel; 1.6 Summary; 2 Quantum mechanics; 2.1 Dirac notation; 2.2 The qubit, higher dimensions, and the inner product; 2.3 Hilbert spaces; 2.4 Projective measurements and operations; 2.5 Unitary operations; 2.6 Eigenvectors and eigenvalues; 2.7 Spectral decomposition; 2.8 Applications of the spectral theorem; 2.9 Dirac notation shorthands; 2.10 The Mach-Zehnder interferometer 2.11 The postulates of quantum mechanics 2.12 Mixed states; 2.13 Entanglement; 2.14 Summary; 3 Quantum information-the basics; 3.1 No cloning of quantum bits; 3.2 Quantum cryptography; 3.3 The trace and partial-trace operations; 3.4 Hilbert space extension; 3.5 The Schmidt decomposition; 3.6 Generalized measurements; 3.7 CP-maps and positive operator-valued measurements; 3.8 The postulates of quantum mechanics revisited; 3.9 Summary; 4 Quantum communication with entanglement; 4.1 Pure state entanglement and

Pauli matrices; 4.2 Dense coding; 4.3 Teleportation; 4.4 Entanglement swapping

4.5 No instantaneous transfer of information 4.6 The extended-Hilbert-space view; 4.7 Summary; 5 Quantum information I; 5.1 Fidelity; 5.2 Helstrom's discrimination; 5.3 Quantum data compression; 5.4 Entropy of observation; 5.5 Conditional entropy and mutual information; 5.6 Relative entropy; 5.7 Statistical interpretation of relative entropy; 5.8 Summary; 6 Quantum information II; 6.1 Equalities and inequalities related to entropy; 6.2 The Holevo bound; 6.3 Capacity of a bosonic channel; 6.4 Information gained through measurements; 6.5 Relative entropy and thermodynamics

6.6 Entropy increase due to erasure 6.7 Landauer's erasure and data compression; 6.8 Summary; PART II: QUANTUM ENTANGLEMENT; 7 Quantum entanglement-introduction; 7.1 The historical background of entanglement; 7.2 Bell's inequalities; 7.3 Separable states; 7.4 Pure states and Bell's inequalities; 7.5 Mixed states and Bell's inequalities; 7.6 Entanglement in second quantization; 7.7 Summary; 8 Witnessing quantum entanglement; 8.1 Entanglement witnesses; 8.2 The Jamiołkowski isomorphism; 8.3 The Peres-Horodecki criterion; 8.4 More examples of entanglement witnesses; 8.5 Summary

9 Quantum entanglement in practice 9.1 Measurements with a Mach-Zehnder interferometer; 9.2 Interferometric implementation of Peres-Horodecki criterion; 9.3 Measuring the fidelity between [omitted] and ; 9.4 Summary; 10 Measures of entanglement; 10.1 Distillation of multiple copies of a pure state; 10.2 Analogy with the Carnot Cycle; 10.3 Properties of entanglement measures; 10.4 Entanglement of pure states; 10.5 Entanglement of mixed states; 10.6 Measures of entanglement derived from relative entropy; 10.7 Classical information and entanglement; 10.8 Entanglement and thermodynamics

10.9 Summary

Sommario/riassunto

Making smaller and faster computers is one of the main goals of current technological progress, and is determined by the laws of physics. Quantum mechanics allows us to encode and manipulate information in ways much more efficient than with existing (classical) computers. The book is an introduction to this exciting subject. - ; This book offers a concise and up-to-date introduction to the popular field of quantum information. It has originated in a series of invited lecture courses at various universities in different countries. This is reflected in its informal style of exposition and presen
