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| Nota di contenuto | Contents; Preface; Acknowledgements; 1 INTRODUCTION AND BACKGROUND; 2 LINEAR ALGEBRA AND THE DIRAC NOTATION; 3 QUBITS AND THE FRAMEWORK OF QUANTUM MECHANICS; 4 A QUANTUM MODEL OF COMPUTATION; 5 SUPERDENSE CODING AND QUANTUM TELEPORTATION; 6 INTRODUCTORY QUANTUM ALGORITHMS; 7 ALGORITHMS WITH SUPERPOLYNOMIAL SPEED-UP; 8 ALGORITHMS BASED ON AMPLITUDE AMPLIFICATION; 9 QUANTUM COMPUTATIONAL COMPLEXITY THEORY AND LOWER BOUNDS; 10 QUANTUM ERROR CORRECTION; APPENDIX A; Bibliography; Index |
| Sommario/riassunto | The authors provide an introduction to quantum computing. Aimed at advanced undergraduate and beginning graduate students in these disciplines, this text is illustrated with diagrams and exercises. |