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| Titolo                  | Quantum Annealing and Related Optimization Methods [[electronic resource] /] / edited by Arnab Das, Bikas K. Chakrabarti  |
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| Descrizione fisica      | 1 online resource (XIV, 378 p.)   |
| Collana                 | Lecture Notes in Physics, , 0075-8450 ; ; 679   |
| Disciplina              | 530.12  |
| Soggetti                | Mathematical physics<br>Condensed matter<br>Mathematical optimization<br>Theoretical, Mathematical and Computational Physics<br>Condensed Matter Physics<br>Optimization  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph   |
| Nota di contenuto       | Tutorial: Introductory Material -- Quantum Annealing: Basics and Applications -- Other Optimizations.   |
| Sommario/riassunto      | Quantum annealing employs quantum fluctuations in frustrated systems or networks to anneal the system down to its ground state, or more generally to its so-called minimum cost state. Often this procedure turns out to be more effective, in multivariable optimization problems, than its classical counterpart utilizing tunable thermal fluctuations. This volume is divided into three parts. Part I is an extensive tutorial introduction familiarizing the reader with the background material necessary to follow the core of the book. Part II gives a comprehensive account of the fundamentals and applications of the quantum annealing method, and Part III compares quantum annealing with other related optimization methods. This is the first book entirely devoted to quantum annealing and will be both an invaluable primer and guidebook for all advanced students and researchers in this important field. |

