

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910257436703321  |
| Titolo                  | Computational Methods in Field Theory [[electronic resource] ] :<br>Proceedings of the 31. Internationale Universitätswochen für Kern- und<br>Teilchenphysik, Schladming, Austria, February 1992 // edited by H.<br>Gausterer, C.B. Lang   |
| Pubbl/distr/stampa      | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer,<br>, 1992  |
| ISBN                    | 3-540-47338-6  |
| Edizione                | [1st ed. 1992.]  |
| Descrizione fisica      | 1 online resource (XII, 276 p. 26 illus., 3 illus. in color.)  |
| Collana                 | Lecture Notes in Physics, , 0075-8450 ; ; 409  |
| Disciplina              | 530.1/4  |
| Soggetti                | Thermodynamics<br>Statistical physics<br>Dynamical systems<br>Elementary particles (Physics)<br>Quantum field theory<br>Physics<br>Quantum physics<br>Complex Systems<br>Elementary Particles, Quantum Field Theory<br>Mathematical Methods in Physics<br>Numerical and Computational Physics, Simulation<br>Quantum Physics |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph  |
| Nota di contenuto       | A stochastic primer -- Computer assisted proofs -- Finite size effects<br>at phase transitions -- High precision simulations with fast algorithms<br>-- The present and future of lattice QCD -- Effective Field Theories --<br>Computers in the design and analysis of HEP experiments.                                     |
| Sommario/riassunto      | This is a review written by leading specialists on the state of the art of<br>computational methods in lattice field theory. They cover a wide range:<br>computer-assisted proofs, algorithms for computer simulation of field<br>theories, effective field theories, computer studies of finite size effects,               |

simulation with fast algorithms, and computer applications in  
experimental particle physics. The book addresses researchers,  
engineers, and graduate students in particle physics.

---