

1. Record Nr.	UNINA9910450832203321
Titolo	Proceedings of Physical Phenomena at High Magnetic Fields-IV [[electronic resource]] : Santa Fe, New Mexico, USA, 19-25 October 2001 / / editors G. Boebinger ... [et al.]
Pubbl/distr/stampa	Singapore ; ; River Edge, N.J., : World Scientific, c2002
ISBN	981-277-780-6
Descrizione fisica	1 online resource (800p.)
Altri autori (Persone)	BoebingerG
Disciplina	538/.3
Soggetti	Magnetic fields Semiconductors Superconductors Fermions Quantum Hall effect Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
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This volume contains papers from the 4th Conference on Physical Phenomena at High Magnetic Fields, held in New Mexico in 2001. This conference brought together experts in scientific research areas where high magnetic fields play an important role, to discuss promising new directions in the area.

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