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Physics ...

High magnetic fields

have, for a long time,

been an important tool

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in the investigation of
the electronic structure
of semiconductors. In
recent years studies of
heterostructures and
superlattices have
predominated

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The eleventh
international
conference on The
Application of High
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Physics
(SEMIMAG-94) has
been organized by the
MIT Francis Bitter
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satellite of the
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This comprehensive
volume covers the

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latest research on high magnetic fields in semiconductor physics presented at the 16th International Conference (SemiMag 16), held in Tallahassee, Florida, August 2-8, 2004. The book features papers from more than 130 participants including the work of the foremost experts in the fields. Much of the most cutting-edge research is covered by the

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a special focused
session on the recently
discovered microwave-
induced zero
resistance effect.

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offline for less than an
hour but the E-
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registration of new
users may not be
available for up to 4
hours.

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High magnetic fields
have been an
important tool in
semiconductor physics
for a long time. The
area has been growing
very rapidly since
quantum effects in
silicon field-effect

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transistors have become of practical interest. Since the discovery of the quantum Hall effect by Klaus von Klitzing in 1980, this subject has grown exponentially.

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High magnetic fields have, for a long time, been an important tool in the investigation of

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the electronic structure of semiconductors. In recent years studies of heterostructures and superlattices have predominated, and this emphasis is reflected in these proceedings.

High Magnetic Fields in Semiconductor Physics III: Quantum

On the contrary, the application of high magnetic fields to semiconductors has

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grown substantially during the recent past. For the elucidation of the electronic band structure of semiconductors high magnetic fields are still an indispensable tool.

High Magnetic Fields in Semiconductor Physics II ...

The topic cover magneto-transport phenomena, cyclotron resonance, far-infrared spectroscopy, magneto-

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optical spectroscopy,
diluted magnetic
semiconductors in high
magnetic fields, as well
as the recent advances
in the experimental
techniques needed for
high field experiments.

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In semiconductor
physics, many
essential
optoelectronic material

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parameters can be
experimentally
revealed via optical
spectroscopy in
sufficiently large
magnetic fields.

**Revealing exciton
masses and
dielectric properties
of ...**

The 22nd International
Conference on High
Magnetic Fields in
Semiconductor Physics
(HMF-22) will be held in
Jozankei View Hotel,

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Sapporo, located in the north part of Japan, during July 24-29, 2016, as a satellite conference of the International Conference on the Physics of Semiconductors (ICPS-2016, Beijing, China).

The 22nd International Conference on "The Application of ...

While many traditional

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magnetic materials, such as magnetite, are also semiconductors (magnetite is a semimetal semiconductor with bandgap 0.14 eV), materials scientists generally predict that magnetic semiconductors will only find widespread use if they are similar to well-developed semiconductor materials.

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Magnetic semiconductor - Wikipedia

Semiconductors in
Magnetic fields The
application of magnetic
fields is one of the
more powerful
methods for
investigating the
properties of charge
carriers. It was first
shown by Landau in
1930 that the energy
levels of a population
of free electrons will
become quantised into

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a set of magnetic sub-
bands (Landau levels).

Proceedings Of The International **Semiconductors in Magnetic fields**

The 24th International
Conference on High
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(HMF-24) will be held in
the Clear Water Bay

campus of the Hong
Kong University of
Science and

Technology (HKUST)
during 16-21 August
2020, as a satellite

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conference to the
International
Conference on the
Physics of
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ICPS-2020, 9-14 August
2020, Sydney,
Australia.

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Conference on high
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Laboratory is the
largest and highest-
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This review focuses on recent developments in the field of DNP with a special emphasis on work done at high magnetic fields (≥ 5 T), the regime where contemporary NMR experiments are performed. After a brief historical survey, we present a review of the classical continuous wave (cw) DNP

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Overhauser effect, the
solid effect ...

Dynamic nuclear polarization at high magnetic fields: The ...

The 23rd International
Conference on High
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(HMF-23) will be held in
Toulouse, France from
22 to 27 July 2018 as a
satellite conference to
the International

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[Yong-jie Wang; Lloyd

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semiconductor is found

to be a close-to-ideal

platform for fractional

quantum Hall state--a

quantum liquid that

emerges under large

perpendicular

magnetic fields.

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