11th International Conference

# HIGH MAGNETIC FIELDS IN THE PHYSICS OF SEMICONDUCTORS


Editor

**D. HEIMAN**

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# High Magnetic Fields In The Physics Of Semiconductors

RM Cervero

**High Magnetic Fields In The Physics Of Semiconductors:**

Physics of Semiconductors in High Magnetic Fields Noboru Miura,2007-10-11 This book describes the basic concepts of various physical phenomena in semiconductors and their modulated structures under high magnetic fields The topics cover magneto transport phenomena cyclotron resonance far infrared spectroscopy magneto optical spectroscopy diluted magnetic semiconductors in high magnetic fields as well as the recent advances in the experimental techniques needed for high field experiments Starting from the introductory part describing the basic theoretical background each chapter introduces typical experimental data which were actually obtained in very high magnetic fields mostly in the pulsed field range up to several megagauss 20 100T The book has both the character of a textbook and a monograph For researchers and students with an interest in semiconductor physics or in high magnetic fields it will serve as a useful guide **High Magnetic Fields In The Physics Of Semiconductors - Proceedings Of The 12th International Conference (In 2 Volumes)** Gottfried Landwehr,Wolfgang Ossau,1997-04-23 This volume contains contributions presented at the 12th International Conference on High Magnetic Fields in Semiconductor Physics In order to give an overview 37 lecturers not only reviewed the latest results in their field but also gave a general introduction The rapid development of semiconductor physics and technology during the last few years has resulted in an extensive application of high magnetic fields in both fundamental and applied research more than 160 contributed papers were presented as posters Sixteen years after its discovery the quantum Hall effect QHE is still a subject of high activity Many new results on the fractional QHE were presented in addition to 6 invited papers there were 43 contributions Another field of high activity is magneto optics and 49 posters were presented Magnetotransport also turned out to be of high interest and magnetic semiconductors played a prominent role at the conference too Without doubt the availability of superconducting magnets in most laboratories contributed to the growth of semiconductor physics in high magnetic fields Because not all experiments can be performed in fields up to 10 or 15 teslas high magnetic field laboratories offering larger fields are indispensable There were reports from four laboratories on present work going on at these installations *Physics of Semiconductors in High Magnetic Fields* Noboru Miura,2008 This book summarizes most of the fundamental physical phenomena which semiconductors and their modulated structures exhibit in high magnetic fields Readers can learn not only the basic theoretical background but also the present state of the art from the most advanced data in this rapidly growing research area **High Magnetic Fields in Semiconductor Physics** Gottfried Landwehr,2012-12-06 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 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 The book contains 42 invited papers and 37 contributed papers which were presented at the 7th of the traditional W rzburg conferences For the area of high magnetic fields applied in semiconductor physics recent results are discussed and the state

of the art is reviewed More than 50% of the papers concern two dimensional electronic systems Other subjects of current interest are magneto optics and magneto transport in three dimensional semiconductors Special attention has been paid to the rapidly growing field of semimagnetic semiconductors **Physics in High Magnetic Fields** S. Chikazumi,N. Miura,2012-12-06 This volume represents the Proceedings of the Oji International Seminar on the Application of High Magnetic Fields in the Physics of Semiconductors and Magnetic Materials which was held at the Hakone Kanko Hotel Hakone Japan from 10 to 13 September 1980 The Seminar was organized as a related meeting to the 15th International Conference on the Physics of Semiconductors which was held in Kyoto between 1 and 5 September 1980 From 12 countries 77 de legates participated in the Seminar This Seminar was originally planned to be a formal series of International Conferences on the Application of High Magnetic Fields in the Physics of Semiconductors which was first started by Professor G Landwehr in 1972 in WUrzburg as a satellite conference to the 11th Semiconductor Conference in Warsaw The Conference in WUrzburg was con ducted in an informal atmosphere which was followed by three conferences in WUrzburg in 1974 and 1976 and in Oxford in 1978 At the current Seminar the physics of magnetic materials was added to the scope of the Seminar because high field magnetism is also an important research area in the physics of high magnetic fields and is also one of the most active fields in physics in Japan In the last decade considerable effort has been devoted to develop the techniques for generating the high magnetic fields in many high field labora tories in the world **High Magnetic Fields in Semiconductor Physics** ,1987 **High Magnetic Fields in Semiconductor Physics II** Gottfried Landwehr,2012-12-06 This volume contains contributions presented at the International Conference The Application of High Magnetic Fields in Semiconductor Physics which was held at the University of Wiirzburg from August 22 to 26 1988 In the tradition of previous Wiirzburg meetings on the subject the first conference was held in 1972 only invited papers were presented orally All 42 lecturers were asked to review their subject to some extent so that this book gives a good overview of the present state of the respective topic A look at the contents shows that the subjects which have been treated at previous conferences have not lost their relevance On the contrary the application of high magnetic fields to semiconductors has grown substantially during the recent past For the elucidation of the electronic band structure of semicon ductors high magnetic fields are still an indispensable tool The investigation of two dimensional electronic systems especially is frequently connected with the use of high magnetic fields The reason for this is that a high B field adds angular momentum quantization to the boundary quantization present in het erostructures and superlattices A glance at the contributions shows that the majority deal with 2D properties Special emphasis was on the integral and fractional quantum Hall effect Very recent results related to the observation of a fraction with an even denbminator were presented It became obvious that the polarization of the different fractional Landau levels is more complicated than originally anticipated **High Magnetic Fields in Semiconductor Physics III** Gottfried Landwehr,2012-12-06 High magnetic fields have for a long time been an important

tool in the investigation of the electronic structure of semiconductors In recent yearsstudies of heterostructures and superlattices have predominated and this emphasis is reflected in these proceedings The contributions concentrate on experiments using transport and optical methods but recent theoretical developments are also covered Special attention is paid to the quantum Hall effect including the problem of edge currents the influence of contacts and Wigner condensation in the fractional quantum Hall effect regime The 27 invited contributions by renowned expertsprovide an excellent survey of the field that is complemented by numerous contributed papers *High Magnetic Fields in the Physics of Semiconductors II* Gottfried Landwehr,W. Ossau,1997 **High Magnetic Fields in the Physics of Semiconductors** Donald Heiman,1995

**The Spectroscopy of Semiconductors** ,1992-07-31 Spectroscopic techniques are among the most powerful characterization methods used to study semiconductors This volume presents reviews of a number of major spectroscopic techniques used to investigate bulk and artificially structured semiconductors including photoluminescence photo reflectance inelastic light scattering magneto optics ultrafast work piezo spectroscopy methods and spectroscopy at extremely low temperatures and high magnetic fields Emphasis is given to major semiconductor systems and artificially structured materials such as GaAs InSb Hg1 xCdxTe and MBE grown structures based upon GaAs AlGaAs materials Both the spectroscopic novice and the expert will benefit from the descriptions and discussions of the methods principles and applications relevant to today s semiconductor structures Key Features Discusses the latest advances in spectroscopic techniques used to investigate bulk and artificially structured semiconductors Features detailed review articles which cover basic principles Highlights specific applications such as the use of laser spectroscopy for the characterization of GaAs quantum well structures **High Magnetic Fields** Fritz Herlach,Noboru Miura,2003 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma physics and astrophysics including QED **High Magnetic Field Science and Its Application in the United States** National Research Council,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,Committee to Assess the Current Status and Future Direction of High Magnetic Field Science in the United States,2013-12-25 The Committee to Assess the Current Status and Future Direction of High Magnetic Field Science in the United States was convened by the National Research Council in response to a request by the National Science Foundation This report answers three questions 1 What is the current state of high field magnet science engineering and technology in the United States and are there any conspicuous needs to be addressed 2 What are the current science drivers and which

scientific opportunities and challenges can be anticipated over the next ten years 3 What are the principal existing and planned high magnetic field facilities outside of the United States what roles have U S high field magnet development efforts played in developing those facilities and what potentials exist for further international collaboration in this area A magnetic field is produced by an electrical current in a metal coil This current exerts an expansive force on the coil and a magnetic field is high if it challenges the strength and current carrying capacity of the materials that create the field Although lower magnetic fields can be achieved using commercially available magnets research in the highest achievable fields has been and will continue to be most often performed in large research centers that possess the materials and systems know how for forefront research Only a few high field centers exist around the world in the United States the principal center is the National High Magnetic Field Laboratory NHMFL High Magnetic Field Science and Its Application in the United States considers continued support for a centralized high field facility such as NHFML to be the highest priority This report contains a recommendation for the funding and siting of several new high field nuclear magnetic resonance magnets at user facilities in different regions of the United States Continued advancement in high magnetic field science requires substantial investments in magnets with enhanced capabilities High Magnetic Field Science and Its Application in the United States contains recommendations for the further development of all superconducting hybrid and higher field pulsed magnets that meet ambitious but achievable goals **High Magnetic Fields in Semiconductor Physics** Gottfried Landwehr,1989

*High Magnetic Fields: Science And Technology (In 3 Volumes) - Vol. 2* Fritz Herlach,Noboru Miura,2003-10-06 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma physics and astrophysics including QED **High Magnetic Fields in Semiconductor Physics III** Gottfried Landwehr,1992-03-30 High magnetic fields have for a long time been an important tool in the investigation of the electronic structure of semiconductors In recent yearsstudies of heterostructures and superlattices have predominated and this emphasis is reflected in these proceedings The contributions concentrate on experiments using transport and optical methods but recent theoretical developments are also covered Special attention is paid to the quantum Hall effect including the problem of edge currents the influence of contacts and Wigner condensation in the fractional quantum Hall effect regime The 27 invited contributions by renowned expertsprovide an excellent survey of the field that is complemented by numerous contributed papers *International Conference: "The Application of High Magnetic Fields in Semiconductor Physics", August 23-27, 1976* ,1976 *High Magnetic Fields in Semiconductor Physics III* Gottfried

Landwehr,1992-03-30 High magnetic fields have for a long time been an important tool in the investigation of the electronic structure of semiconductors In recent yearsstudies of heterostructures and superlattices have predominated and this emphasis is reflected in these proceedings The contributions concentrate on experiments using transport and optical methods but recent theoretical developments are also covered Special attention is paid to the quantum Hall effect including the problem of edge currents the influence of contacts and Wigner condensation in the fractional quantum Hall effect regime The 27 invited contributions by renowned expertsprovide an excellent survey of the field that is complemented by numerous contributed papers *The Physics of Semiconductors* Marius Grundmann,2010-11-11 Semiconductorelectronicsiscommonplaceineveryhousehold Semiconductor deviceshavealsoenabledeconomicallyreasonable ber basedopticalcom nication optical storage and high frequency ampli cation and have recently revolutionizedphotography displaytechnologyandlighting Alongwiththese tremendous technological developments semiconductors have changed the way we work communicate entertain and think The technological progress of semiconductor materials and devices is evolving continuously with a large worldwide e ort in human and monetary capital For students semicond tors o er a rich diverse and exciting eld with a great tradition and a bright future This book introduces students to semiconductor physics and semicond tor devices It brings them to the point where they can specialize and enter supervisedlaboratoryresearch Itisbasedonthetwosemestersemiconductor physics course taught at Universit at Leipzig in its Master of Science physics curriculum Since the book can be followed with little or no pre existing knowledge in solid state physics and quantum mechanics it is also suitable for undergraduate students For the interested reader some additional topics are included in the book that can be covered in subsequent more speci ized courses The material is selected to provide a balance between aspects of solid state and semiconductor physics the concepts of various semiconductor devices and modern applications in electronics and photonics *Eighteen[th] International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology (HMF18), São Pedro, Brazil, 3-8 August 2008* ,2009

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## High Magnetic Fields In The Physics Of Semiconductors Introduction

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