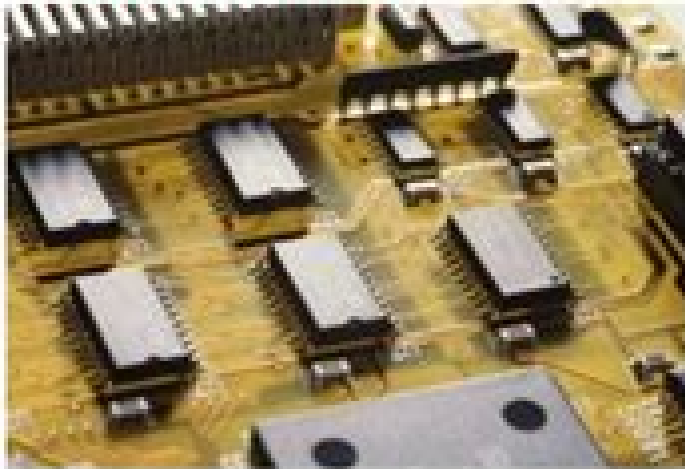


Why magnetic semiconductors?

(1) Possible applications

Nearly incompatible technologies in present-day computers:

semiconductors: processing



ferromagnets: data storage



ferromagnetic semiconductors: integration on a single chip?

single-chip computers for embedded applications:
cell phones, intelligent appliances, security

Semiconductors And Semimetals Diluted Magnetic Semiconductors Semiconductors

Robert K. Willardson, Albert C. Beer



Semiconductors And Semimetals Diluted Magnetic Semiconductors Semiconductors:

Semiconductors and Semimetals: Diluted magnetic semiconductors Robert K. Willardson, Albert C. Beer, 1966
Semiconductors and Semimetals Robert K. Willardson, Albert C. Beer, 1966 *Semiconductors and Semimetals*, 1989-01-09 Semiconductors and Semimetals

Introduction to the Physics of Diluted Magnetic Semiconductors Jacek Kossut, Jan A. Gaj, 2011-01-12 As materials whose semiconducting properties are influenced by magnetic ions DMSs are central to the emerging field of spintronics This volume focuses both on basic physical mechanisms e g carrier ion and ion ion interactions and resulting phenomena

Diluted Magnetic Semiconductors Mukesh Jain, 1991-10-31 This review volume presents both basic and applied aspects of diluted magnetic semiconductors DMS The term DMS applies generally to semiconductors in which a fraction of its constituent ions are replaced by magnetic ions This book is only the second to review DMS materials It presents a detailed treatment of the current state of knowledge of the established properties of DMS in the form of single crystals quantum wells and superlattices It also brings together recent work on new DMS materials and presents discussions on a wide range of possible DMS applications

Semiconductors and Semimetals Robert K. Willardson, Albert C. Beer, 2000 *Rare Earth and Transition Metal Doping of Semiconductor Materials* Volkmar Dierolf, Ian Ferguson, John M Zavada, 2016-01-23 Rare Earth and Transition Metal Doping of Semiconductor Material explores traditional semiconductor devices that are based on control of the electron s electric charge This book looks at the semiconductor materials used for spintronics applications in particular focusing on wide band gap semiconductors doped with transition metals and rare earths These materials are of particular commercial interest because their spin can be controlled at room temperature a clear opposition to the most previous research on Gallium Arsenide which allowed for control of spins at supercold temperatures Part One of the book explains the theory of magnetism in semiconductors while Part Two covers the growth of semiconductors for spintronics Finally Part Three looks at the characterization and properties of semiconductors for spintronics with Part Four exploring the devices and the future direction of spintronics Examines materials which are of commercial interest for producing smaller faster and more power efficient computers and other devices Analyzes the theory behind magnetism in semiconductors and the growth of semiconductors for spintronics Details the properties of semiconductors for spintronics

Physics Of Semiconductors, The - Proceedings Of The 22nd International Conference (In 3 Volumes) David J Lockwood, 1995-01-20 These proceedings review the progress in most aspects of semiconductor physics including those related to materials processing and devices The conference continues the tradition of the ICPS series and these volumes include state of the art lectures The plenary and invited papers address areas of major interest These volumes will serve as excellent material for researchers in semiconductor physics and related fields

Devices Based on Low-Dimensional Semiconductor Structures M. Balkanski, 2012-12-06 Low dimensional semiconductor quantum structures are a major high technological development that has a considerable industrial potential

The field is developing extremely rapidly and the present book represents a timely guide to the latest developments in device technology fundamental properties and some remarkable applications The content is largely tutorial and the book could be used as a textbook The book deals with the physics fabrication characteristics and performance of devices based on low dimensional semiconductor structures It opens with fabrication procedures The fundamentals of quantum structures and electro optical devices are dealt with extensively Nonlinear optical devices are discussed from the point of view of physics and applications of exciton saturation in MQW structures Waveguide based devices are also described in terms of linear and nonlinear coupling The basics of pseudomorphic HEMT technology device physics and materials layer design are presented Each aspect is reviewed from the elementary basics up to the latest developments Audience Undergraduates in electrical engineering graduates in physics and engineering schools Useful for active scientists and engineers wishing to update their knowledge and understanding of recent developments

Comprehensive Semiconductor Science and Technology

,2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field

II-VI Semiconductor Compounds

Mukesh Jain,1993-05-04 Contents X Ray Characterisation of II VI Semiconductor Materials D Gao et al Electronic Structure of II VI Semiconductors and Their Alloys S H Wei Radiative Recombination Processes in Rare Earth Doped II VI Materials M Godlewski et al Nonlinear Optical Properties of Heavily Doped CdS U Neukirch Nanostructures of

Broad Gap II Mn VI Semiconductors W Heimbrodt O Goede Co Based II VI Semimagnetic Semiconductors A Twardowski et al
Photoluminescence and Raman Scattering of ZnSe ZnTe Strained Layer Superlattices K Kumazaki Novel Electronic Processes
in Mercury Based Superlattices J R Meyer et al Strain Pressure and Piezoelectric Effects in Strained II VI Superlattices and
Heterostructures E Anastassakia Electronic Structures of Strained II VI Superlattices T Nakayama Devices and Applications
of II VI Compounds S Colak Solar Cells Based on II VI Semiconductors H Uda ZnSe and Its Applications for Blue Light Laser
Diodes M Pessa D Ahn Molecular Beam Epitaxy of HgCdTe for Electro Optical Infrared Applications J M A Cort s and other
papers Readership Condensed matter physicists and electronic engineers keywords **Semiconductor Physics** Karl W.
Böer,Udo W. Pohl,2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It
addresses every fundamental principle the most important research topics and results as well as conventional and emerging
new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and
amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and
extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological
insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of
internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the
field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique
perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and
engineers throughout academia and industry **Diluted Magnetic Semiconductors** ,1987 **Nanomagnetism and
Spintronics** Teruya Shinjo,2009-06-29 Spintronics is a newly developing area in the field of magnetism in which the
interplay of magnetism and transport phenomena is studied experimentally and theoretically This book introduces the recent
progresses in the research relating to spintronics Presents in depth analysis of this fascinating and technologically important
new branch of nanoscience Edited text with contributions from acknowledged leaders in the field This handbook and guide
will appeal to students and researchers in the fields of electronic devices and materials Semiconductor Interfaces And
Microstructures Zhe Chuan Feng,1992-08-31 Recently there have been major achievements in the study of semiconductor
interfaces and microstructures for different materials and structural systems Progress has been made through various
experimental technologies and theoretical methods This book provides an up to date review on these advances and includes
the following major subjects IV IV III V and II VI semiconductors and metal semiconductor structures new developments in
growth methods electric optical magnetic and structural characterization and properties relative theories electronic
transport phonos and interface modes devices and applications These materials are organized into four sections General III V
II VI and IV IV which offer comprehensive information and help readers in following the new developments in the research
frontiers of the above fields High Pressure Semiconductor Physics I ,1998-09-09 Since its inception in 1966 the series of

numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise indeed that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Volumes 54 and 55 present contributions by leading researchers in the field of high pressure semiconductors Edited by T Suski and W Paul these volumes continue the tradition of well known but outdated publications such as Brigman s The Physics of High Pressure 1931 and 1949 and High Pressure Physics and Chemistry edited by Bradley Volumes 54 and 55 reflect the industrially important recent developments in research and applications of semiconductor properties and behavior under desirable risk free conditions at high pressures These developments include the advent of the diamond anvil cell technique and the availability of commercial pistoncylinder apparatus operating at high hydrostatic pressures These much needed books will be useful to both researchers and practitioners in applied physics materials science and engineering

First-Principle Vs Experimental Design of Diluted Magnetic Semiconductors Omar Mounkachi, Abdelilah Benyoussef, Mohamed Hamedoun, 2018-10 Recent discoveries have given rise to a new class of electronics known as spin electronics or spintronics which uses the electron spin rather than its charge to create polarized currents Spintronics is currently experiencing an extraordinary development with the manufacture of nanoscale devices based on ferromagnetic materials and semiconductors Their applications are numerous ranging from recording electronics and optoelectronics to quantum information Spintronics is a new generation of electronics that has brought and continues to bring a lot of progress to information storage this is due to the discovery of new materials with new functionalities and multiple applications The discovery of giant magnetoresistance GMR in 1988 by Albert Fert and Peter Gr nberg receiver of the Nobel Prize in Physics in 2007 is considered a starting point of spintronics GMR is based on the variation of the electric current in the presence of a magnetic field The spintronics has made important contributions to the miniaturization desired for electronics it uses nanometric components for processing and storing information However the limits of miniaturization on a nanometric scale are known and it is imperative to develop new ways and new materials to exceed those limits The most desired properties for these materials are high spin polarization modular

magnetic properties by an electric field and a long lifetime of the spin polarization Among the new promising materials we cite the following Diluted magnetic semiconductors which give new magnetic properties of conventional semiconductors functional oxides including the semi metals and multiferroic metals and organic semiconductors The main theoretical challenge in this area is to understand how the macroscopic magnetic behavior observed results from interactions of a large number of degrees of microscopic freedom In these systems the disorder is an essential parameter of magnetic phenomena and due to random locations of impurity atoms it can lead to a total physical difference from the observed absence There has been considerable recent advances in the design of these materials as diluted magnetic semiconductors DMS or diluted magnetic semiconductors and a number of semiconductors were investigated as II VI group and III V group doped compounds with transition metals substituting their original cations There are several different theoretical approaches to study these magnetic materials The ab initio approach starts from the Schrödinger equation to simulate a given material Such an approach is essential to determine the parameters and microscopic properties of such a system In this book the authors analyzed the electronic structure of magnetic semiconductors diluted in the case of ZnO GaN SnO₂ TiO₂ MgH₂ EuO and EuN doped RENs RE GdN DyN and HoN The authors focused on magnetic optical and exchange mechanisms which control the ferromagnetism in these systems The purpose of this book is to propose some ideas to answer the most important question in material science for semiconductor spintronics primarily considering how room temperature ferromagnetism in DMS can be realized Additionally the correlation between first principle and experimental design to see how properties of yet to be synthesized materials can be predicted

NRL Review ,2001 *CRC Handbook of Laser Science and Technology Supplement 2* Marvin J. Weber,1994-12-28 In the CRC Handbook of Laser Science and Technology Supplement 2 experts summarize the discovery and properties of new optical materials that have appeared since the publication of Volumes III V Included are the latest advances in optical crystals glasses and plastics laser host materials phase conjugation materials linear electrooptic materials nonlinear optical materials magneto optic materials elastooptic materials photorefractive materials liquid crystals and thin film coatings The book also includes expanded coverage of optical waveguide materials and new sections on optical liquids glass fiber lasers diamond optics and gradient index materials Appendices include Designation of Russian Optical Glasses Abbreviations Acronyms and Mineralogical or Common Names for Optical Materials and Abbreviations for Methods of Preparing Optical Materials Extensive tabulations of materials properties with references to the primary literature are provided throughout the supplement The CRC Handbook of Laser Science and Technology Supplement 2 represents the latest volume in the most comprehensive up to date listing of the properties of optical materials for lasers and laser systems making it an essential reference work for all scientists and engineers working in laser research and development

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 Würzburg from August 22 to 26 1988 In the tradition of previous Würzburg 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 semiconductors 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 heterostructures 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 denominator were presented It became obvious that the polarization of the different fractional Landau levels is more complicated than originally anticipated

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web aug 30 2022 acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity the reagent titrant is the solution with a known molarity that will react with the analyte

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web conclusion the purpose of the experiment was to identify the unknown solid acid 17 by calculating its molar mass this was done by titration of the acid with sodium hydroxide in order to find the volume of sodium hydroxide required to reach the end point and that value was used in unit analysis to find the molar mass and identify the unknown solid acid

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web by utilizing the half equivalence point on the titration curve the pka of the acid analyte was determined to be 3.655 furthermore using the stoichiometric ratio between the naoh and the acid analyte 1:1 we could experimentally determine the number of moles of the acid in the solution to be 0.00731 moles making the experimental molar mass

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web goals understand that parts of an acid base titration be able to determine the K_a or K_b from pH data associated with the titration of a weak acid or base be able to determine the molar mass of a solid monoprotic acid from titration data be able to calculate K_{a1} and K_{a2} for a polyprotic acid by the end of this lab students should be able to

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web titration experiment in the neutralization of hydrochloric acid by sodium hydroxide the mole ratio of acid to base is 1 1
 $HCl(aq) + NaOH(aq) \rightarrow NaCl(aq) + H_2O(l)$
one mole of HCl would be fully neutralized by one mole of NaOH

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web conclusion the identification of an unknown solid acid the purpose of this experiment was to determine the standardization of sodium hydroxide NaOH and oxalic acid $H_2C_2O_4 \cdot 2H_2O$ and the molar mass of an unknown solid acid using the molar mass of the standardized sodium hydroxide solution

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web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak pK_a of an unknown acid or pK_b of the unknown base key terms titration a process where a solution of known strength is added to a certain volume of a treated sample containing an

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web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being NaOH reaction with a 2nd substance $H_2C_2O_4 + 2NaOH \rightarrow Na_2C_2O_4 + 2H_2O$ to differentiate an acid from a base in a solution a pH scale is used the pH scale ranges from 0 to 14 a pH of 7 is neutral in an acid base reaction

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web this point of titration is referred to as the equivalence point considering the 1 1 stoichiometry of this acid base reaction naoh aq c6h4 cooh cook aq c6h4 coona cook aq h2o l the point of equivalence is the point of titration when the number of moles of naoh na added is equal to the number of moles of khp nb in the

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