

STRUCTURE AND BONDING

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Superconductivity in Complex Systems

 Springer

Superconductivity In Complex Systems

J. Tersoff, David Vanderbilt, V. Vitek



Superconductivity In Complex Systems:

Superconductivity in Complex Systems Karl Alexander Müller, Annette Bussmann-Holder, 2005-06-23

Combinatorial Materials Synthesis Xiao-Dong Xiang, Ichiro Takeuchi, 2003-08-19 Pioneered by the pharmaceutical industry and adapted for the purposes of materials science and engineering the combinatorial method is now widely considered a watershed in the accelerated discovery development and optimization of new materials Combinatorial Materials Synthesis reveals the gears behind combinatorial materials chemistry and thin film technology and discusses the prime techniques involved in synthesis and property determination for experimentation with a variety of materials Funneling historic innovations into one source the book explores core approaches to synthesis and rapid characterization techniques for work with combinatorial materials libraries

Introduction to AI Safety, Ethics, and Society Dan Hendrycks, 2024-12-31

As AI technology is rapidly progressing in capability and being adopted more widely across society it is more important than ever to understand the potential risks AI may pose and how AI can be developed and deployed safely Introduction to AI Safety Ethics and Society offers a comprehensive and accessible guide to this topic This book explores a range of ways in which societies could fail to harness AI safely in coming years such as malicious use accidental failures erosion of safety standards due to competition between AI developers or nation states and potential loss of control over autonomous systems Grounded in the latest technical advances this book offers a timely perspective on the challenges involved in making current AI systems safer Ensuring that AI systems are safe is not just a problem for researchers in machine learning it is a societal challenge that cuts across traditional disciplinary boundaries Integrating insights from safety engineering economics and other relevant fields this book provides readers with fundamental concepts to understand and manage AI risks more effectively This is an invaluable resource for upper level undergraduate and postgraduate students taking courses relating to AI Safety Alignment AI Ethics AI Policy and the Societal Impacts of AI as well as anyone trying to better navigate the rapidly evolving landscape of AI safety

High-Tc Superconductors Based on FeAs Compounds Yuri Izyumov, Ernst Kurmaev, 2010-11-11 Physical properties and models of electronic structure are analyzed for a new class of high TC superconductors which belong to iron based layered compounds Despite their variable chemical composition and differences in the crystal structure these compounds possess similar physical characteristics due to electron carriers in the FeAs layers and the interaction of these carriers with fluctuations of the magnetic order A tremendous interest towards these materials is explained by the prospects of their practical use In this monograph a full picture of the formation of physical properties of these materials in the context of existing theory models and electron structure studies is given The book is aimed at a broad circle of readers physicists who study electronic properties of the FeAs compounds chemists who synthesize them and specialists in the field of electronic structure calculations in solids It is helpful not only to researchers active in the fields of superconductivity and magnetism but also for graduate and postgraduate students and all those who would like to get

acquainted with this vivid area of the materials science *Oxide Superconductor Physics and Nano-engineering*, 1994
6th International Conference on New Theories, Discoveries and Applications of Superconductors and Related Materials, 2007 Condensation and Coherence in Condensed Matter Tord Claeson, P. Delsing, 2003 In 2001 the Nobel Foundation celebrated the 100th anniversary of the first Nobel Prize and all previous Nobel laureates were invited to attend the Nobel ceremonies in Stockholm This gave an excellent opportunity for arranging jubilee symposia with topics that would attract several of the laureates The chosen subject of Condensation and Coherence in Condensed Systems attracted sixteen Nobel laureates and another thirty five leading scientists The idea was to bring scientists together from several related subdisciplines atomic physics quantum optics and condensed matter physics for cross breeding of ideas concepts and experience Subjects like phase transitions in strongly coupled systems Bose Einstein condensation in weakly coupled systems macroscopic quantum phenomena coherence in mesoscopic structures and quantum information were intensively discussed from different points of view Coherence phenomena in condensed systems were emphasized A special session was devoted to the emerging field of quantum computing with experimental and theoretical results reported for different types of qu bits The 2001 Nobel Prize awarded to Eric Cornell Wolfgang Ketterle and Carl Wieman for the achievement of Bose Einstein condensation in dilute gases of alkali atoms and for early fundamental studies of the properties of the condensates gave an extra flavor to the theme of the Centennial Symposium Condensation And Coherence In Condensed Matter, Proceedings Of The Nobel Jubilee Symposium T Claeson, P Delsing, 2003-03-21 In 2001 the Nobel Foundation celebrated the 100th anniversary of the first Nobel Prize and all previous Nobel laureates were invited to attend the Nobel ceremonies in Stockholm This gave an excellent opportunity for arranging jubilee symposia with topics that would attract several of the laureates The chosen subject of Condensation and Coherence in Condensed Systems attracted sixteen Nobel laureates and another thirty five leading scientists The idea was to bring scientists together from several related subdisciplines atomic physics quantum optics and condensed matter physics for cross breeding of ideas concepts and experience Subjects like phase transitions in strongly coupled systems Bose Einstein condensation in weakly coupled systems macroscopic quantum phenomena coherence in mesoscopic structures and quantum information were intensively discussed from different points of view Coherence phenomena in condensed systems were emphasized A special session was devoted to the emerging field of quantum computing with experimental and theoretical results reported for different types of qu bits The 2001 Nobel Prize awarded to Eric Cornell Wolfgang Ketterle and Carl Wieman for the achievement of Bose Einstein condensation in dilute gases of alkali atoms and for early fundamental studies of the properties of the condensates gave an extra flavor to the theme of the Centennial Symposium *Energy Research Abstracts*, 1980-03 **Atomic Scale Calculations in Materials Science** J. Tersoff, David Vanderbilt, V. Vitek, 1989 Methods Electronic structure Structural properties and phonons Point and line defects Interfaces and surfaces **High-Tc Microwave Superconductors and Applications** Robert B.

Hammond, Richard S. Withers, 1994 Solid State NMR Studies of the Properties of Prominent Oxide Materials Marjorie Went, 1991 *The Economist* , 2001 **Electronic Structure and Properties** Frank Y. Fradin, 1981 **Meetings on Atomic Energy** , 1994 **2004 Graduate Programs in Physics, Astronomy, and Related Fields** American Institute of Physics, 2003-11-06 This comprehensive compendium provides information on nearly every U S doctoral program in physics and astronomy plus data on most major master s programs in these fields Information on many major Canadian programs is also included In addition the Graduate Programs directory lists a substantial number of related field departments including materials science electrical and nuclear engineering meteorology medical and chemical physics geophysics and oceanography This twenty eighth annual edition contains information valuable to students planning graduate study and faculty advisors including each program s research expenditures and sources of support A number of helpful appendices make navigating the directory a simple task **Science** , 2011 Condensed Matter Physics J. Mahanty, M. P. Das, 1989

AAAS Annual Meeting Program American Association for the Advancement of Science. National Meeting, 1989

2003 Graduate Programs in Physics, Astronomy, and Related Fields American Institute of Physics, 2002 This comprehensive compendium provides information on nearly every U S doctoral program in physics and astronomy plus data on most major master s programs in these fields Information on many major Canadian programs is also included In addition the Graduate Programs directory lists a substantial number of related field departments including materials science electrical and nuclear engineering meteorology medical and chemical physics geophysics and oceanography This twenty seventh annual edition contains information valuable to students planning graduate study and faculty advisors including each program s research expenditures and sources of support A number of helpful appendices make navigating the directory a simple task

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