TEN YEARS OF SUPERCONDUCTIVITY

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Ten Years Of Superconductivity 1980 199

United States. National Bureau of Standards

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Superconductivity A. Bisarsh, 1999 This book consists of over 600 selected descriptions and abstracts of books book chapters patents and journal articles from throughout the world dealing with this high profile topic Each citation contains complete bibliographic data plus key words The entries are grouped under the headings of Theory of Superconductivity Superconducting Devices Superconducting Properties of Materials Applications of Superconductors Author Index Subject **Subject Guide to Books in Print** ,1993 Advances in Superconductivity J. Deaver, B.S. Deaver, J. Ruvalds, 2013-06-29 The Advanced Study Institute on Advances in Superconductivity was held at the Ettore Majorana Centre for Scientific Culture in Erice Sicily during July 3 to July 15 1982 This Institute was the third course of the International School of Low Tempera ture Physics which was established at the Centre in 1977 with the guidance and inspiration of T Regge and A Zichichi The 1982 Course was centered on a topic which brought together fundamental basic research and the most recent promising technological applications Accordingly the participants represented a wide spectrum of industrial and government laboratories as well as universities from various countries. The program of topics and speakers was developed with the advice of the Organizing Committee composed of H Frohlich T Regge B Stritzker and L Testardi This Institute emphasized recent developments in the science and technology of superconductivity A historical perspective was provided by H Frohlich whose lectures recall the earliest discoveries and theoretical attempts to understand superconductivity Ironically his early suggestion of the electron phonon coupling as a key to superconductivity was met with initial widespread skepticism Later the development of field theory methods for solid state physics problems and the evolution of the BCS theory has led to a seemingly unanimous concensus regarding the electron phonon mechanism as the predominant source of superconductivity in known materials Experimental studies of superconductivity exemplify the strong interplay of science and technology in many ways Electronic Structure and Properties of Hydrogen in Metals C.B. Satterthwaite, P. Jena, 2013-03-09 Hydrogen is the smallest impurity atom that can be implanted in a metallic host Its small mass and strong interaction with the host electrons and nuclei are responsible for many anomalous and interesting solid state effects In addition hydrogen in metals gives rise to a number of technological problems such as hydrogen embrittlement hydrogen storage radiation hardening first wall problems associated with nuclear fusion reactors and degradation of the fuel cladding in fission reactors Both the fundamental effects and applied problems have stimulated a great deal of inter est in the study of metal hydrogen systems in recent years This is evident from a growing list of publications as well as several international conferences held in this field during the past decade It is clear that a fundamental understanding of these problems re quires a firm knowledge of the basic interactions between hydrogen host metal atoms intrinsic lattice defects and electrons This understanding is made particularly difficult by hyrogen s small mass and by the large lattice distortions that accompany the hydrogenation process The purpose of the International Symposium on the Electronic Structure and Properties of Hydrogen

in Metals held in Richmond Virginia March 4 6 1982 was to increase our fundamental under standing of hydrogen in metals Such knowledge is essential in solving technologically important questions. The symposium con sisted of twenty two invited papers and seventy two contributed poster presentations and attracted nearly 150 participants from thirteen countries The proceedings of this symposium constitute this book Ten Years of Superconductivity: 1980-1990 H.R. Ott, 2012-12-06 The unexpected and therefore really amazing discovery of I G Bednorz and K A R32 Miller that certain oxide compounds enter a superconducting state at temperatures above 30 K pushed research on superconductivity into the limelight of science in general in a way that seemed reserved for a while for high energy or particle physics only The common interest was then even more aroused when subsequent work rather quickly established that in the same class of compounds oxides critical temperatures of superconductivity above R36 the boiling point of nitrogen could be achieved It might therefore be expected that this entire review would solely deal with superconductivity at high temperatures i e above the boiling point of hydrogen From my point of view however any unexpected occurrence of superconductivity is a challenge to scientists interested either in the physics of this phenomenon or in its materials science aspects In this respect the last ten years have been quite revolutionary in the sense that on various occasions superconductivity was discovered in materials whose physical properties were not obviously favourable for adopting this ground state This period started with the observation that homogeneous coexistence of superconductivity and magnetic order in the same material was possible Later it was found that electrons whose effective mass was tremendously enhanced by magnetic interactions may also form a superconducting state namely in materials that were subsequently identified as heavy electron superconductors The British National Bibliography Arthur Proceedings of the Yamada Conference XVIII on Superconductivity in Highly Correlated James Wells, 1994 Fermion Systems M. Tachiki, Y. Muto, S. Maekawa, 2013-09-24 Superconductivity in Highly Correlated Fermion Systems documents the proceedings of the Yamada Conference XVIII on Superconductivity in Highly Correlated Fermion Systems held in Sendai Japan from August 31 to September 3 1987 This book compiles selected papers on the experimental and theoretical advances in the study of superconductivity The topics include the superconductivity and magnetism in heavy electron materials magneto resistance of heavy fermion compounds and magnetic fluctuations and order in exotic superconductors The fabrication and properties of thin superconducting oxide films bipolaron models of superconductors superconducting properties of superlattices and flux quantization on quasi crystalline networks are also covered This publication is recommended for physicists and students researching on the superconductivity in highly correlated fermion A Biweekly Cryogenics Current Awareness Service ,1977 Journal of Research of the National Bureau of systems Standards ,1985 Journal of Research of the National Bureau of Standards United States. National Bureau of Standards, 1985

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