



# Ternary Superconductors

**Merrill B. Maple**



## **Ternary Superconductors:**

**Superconductivity in Ternary Compounds II** Merrill B. Maple, 2013-11-11      *Superconductivity in Ternary Compounds I* O. Fischer, L.B. Maple, 2012-12-06 The structural electronic and lattice properties of superconducting ternary compounds are the subject of this Topics volume Its companion volume Topics in Current Physics Volume 34 deals primarily with the mutual interaction of superconductivity and magnetism in ternary compounds These two volumes are the culmination of a project started nearly two years ago that was inspired by the intense research effort both experimental and theoretical then being expended to explore and develop an understanding of the remarkable physical properties of ternary superconductors Research activity on this subject has increased in the meantime The interest in ternary superconductors originated in 1972 when B T Matthias and his co workers first discovered superconductivity in several ternary molybdenum sulfide compounds that had been synthesized in 1971 by R Chevrel M Sergent and J Prigent The superconducting critical temperature  $T_c$  of one of the compounds  $PbMoS$  was reported to be 15 K This value is sufficiently high that there was good reason to expect that other ternary compounds would be found with superconducting transition temperatures rivaling those of the A15 compounds of which  $Nb_3Ge$  has the record high  $T_c$  of 23 K The interest in ternary superconductors received further impetus when several of the ternary molybdenum sulfides were found to have exceptionally high upper critical magnetic fields some of them in the neighborhood of 50 Tesla or more An immense amount of research on ternary molybdenum chalcogenides then followed      **Ternary Superconductors** Bobby David Dunlap, 1981      **Superconductors** A. V. Narlikar, 2014-04 Unusual and unconventional features of a large variety of novel superconductors are presented and their technological potential as practical superconductors assessed      *Superconductivity in Ternary Compounds II* M.B. Maple, O. Fischer, 1982-10-01 With contributions by numerous experts      **Superconductivity in Magnetic and Exotic Materials** T. Matsubara, A. Kotani, 2012-12-06 The sixth Taniguchi Symposium on the Theory of Condensed Matter was held between 14-18 November 1983 at Kashikojima Japan During the Symposium about twenty participants lived together and discussed the magnetic superconductors and related problems in an active and friendly atmosphere This volume contains the papers presented at this Symposium A strong impetus for organizing a Symposium of this subject is afforded by recent intense interest and accumulated information on magnetic and other novel superconductors newly discovered and indeed the Symposium has produced many excellent contributions to this very exciting field of condensed matter theory as reported in this volume In order to give the readers a general outline of the subject a brief sketch of the problem is made in the Introduction Then the remainder of this volume is divided into four Parts and an Appendix Part I is devoted to discussions on several aspects of ferromagnetic superconductors including superconductivity in heavy fermion systems Part II treats problems on anti ferromagnetic superconductors In Part III three papers on organic superconductors are presented Part IV includes discussions on the exotic superconductors The Appendix is concerned with the new research project towards high

Tc superconductors in Japan The last but not least remark is to mention the activity of the Taniguchi Foundation whose support makes this Symposium possible For many years Mr *Ternary and Multinary Compounds* Satyendra K. Deb,Alex Zunger,1987 Library of Congress Subject Headings Library of Congress,Library of Congress. Subject Cataloging Division,Library of Congress. Office for Subject Cataloging Policy,2013 *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office,2009 *Handbook on the Physics and Chemistry of Rare Earths* ,2023-11-23 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 64 the latest release in this continuous series that covers all aspects of rare earth science including chemistry life sciences materials science and physics presents interesting chapters on a variety of topics with this release including sections on Structure and properties of Ln<sub>2</sub>M<sub>3</sub>Ge<sub>5</sub> compounds Giant magnetocaloric effect materials Lanthanide based single molecule magnets and Magnetic Refrigeration with Lanthanide Based Materials Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains individual chapters that are comprehensive and broad along with critical reviews Provides contributions from highly experienced invited experts **Superconducting Devices & Materials** ,1974

**Superconductivity in d-and f-Band Metals** Harry Suhl,2012-12-02 Superconductivity in d and f Band Metals focuses on the establishment of systematics among d and f band metals with emphasis towards developing a fundamental theory with predictive capability for these complex materials This book examines the unique physical qualities of the d and f band metals that challenge our basic understanding of several general aspects of superconductivity Organized into 59 chapters this compilation of papers starts with an overview of the homogeneity in d and f band systems that offer the opportunity for relating superconductivity to the normal state microscopic parameters This book then explores several topics including superconductors phonon effects electronic structure A 15 systematics as well as disorder and transport Other chapters discuss the interrelationships between superconductivity and magnetism This text discusses as well the magnetic field dependent effects in the rare earth ternary compounds The final chapter deals with the complexity of the crystal structures This book is a valuable resource for materials scientists and physicists *Advances in Superconductivity XI* N. Koshizuka,S. Tajima,2013-11-11 The 11th International Symposium on Superconductivity was held November 16 19 1998 in Fukuoka Japan Convened annually since 1988 the symposium covers the whole field of superconductivity from fundamental physics and chemistry to new applications At the 11th Symposium there was increased interest reported in the development of trial devices using bismuth wires and yttrium based bulk materials Among the presentations were those that clearly defined the development targets for next generation yttrium based wires and bulk materials and single flux quantum SFQ circuits Other popular topics were high temperature superconductivity applications such as SQUIDs microwave filters and cryocooler cooled magnets With more than 600 participants from 18 countries the symposium provided an excellent forum for exchanges of the most recent information in the field of superconductivity **Library of Congress Subject Headings**

Library of Congress. Office for Subject Cataloging Policy,1992      **P-Z** Library of Congress. Office for Subject Cataloging Policy,1990      **Library of Congress Subject Headings: P-Z** Library of Congress. Subject Cataloging Division,1989

**Low Temperature Physics-LT 13** K. D. Timmerhaus,W. J. O'Sullivan,E. F. Hammel,2013-11-21 The 13th International Conference on Low Temperature Physics organized by the National Bureau of Standards Los Alamos Scientific Laboratory and the University of Colorado was held in Boulder Colorado August 21 to 25 1972 and was sponsored by the National Science Foundation the U S Army Office of Scientific Research the U S Atomic Energy Commission the U S Navy Office of Naval Research the International Institute of Refrigeration and the International Union of Pure and Applied Physics This international conference was the latest in a series of biennial conferences on low temperature physics the first of which was held at the Massachusetts Institute of Technology in 1949 For a complete list of previous L T conferences see p viii Many of these past conferences have been coordinated and sponsored by the Commission on Very Low Temperatures of IUPAP Subsequent LT conferences will be scheduled triennially beginning in 1975 LT 13 was attended by approximately 1015 participants from twenty five countries Eighteen plenary lectures and 550 contributed papers were presented at the Conference The Conference began with brief introductory and welcoming remarks by Dr R H Kropschot on behalf of the Organizing Committee Professor J Bardeen on behalf of the Commission on Very Low Temperatures of the IUP AP and Professor O V Lounasmaa on behalf of the International Institute of Refrigeration The eighth London Award was then presented by Professor E      **Scientific Information Bulletin** ,1988      Field Theory And Collective Phenomena S De Lillo,P Sodano,Faqir C Khanna,Gordon W Semenoff,1995-12-21 This volume is dedicated to Prof Hiroomi Umezawa to honour of his retirement from the Killam Memorial Chair of Theoretical Physics at the University of Alberta It is intended to summarize the contents of a Conference held at Perugia from May 28 to May 31 1992 aimed at bringing together researchers whose activity has been in close touch with the many topics addressed by Prof Umezawa in his long scientific career This book is a collection of invited papers on Field Theory and its many applications to describe collective properties of physical systems The topics range from Condensed Matter Physics to General Relativity It contains review papers by leading experts on Finite Temperature Field Theory Nonequilibrium Field Theory Gauge Theories General Relativity Nonlinear Equations and Complex Systems The conference occurred at a time of searching for new ways to use the unifying views of modern field theory to provide explanatory paradigms for a wide variety of phenomena The book is a timely effort in this direction The contents of the book will be appreciated by a readership fascinated by both the versatility and the rigorous structure of Quantum Field Theory      *Theory of Heavy Fermions and Valence Fluctuations* Tadao Kasuya,Tetsuro Saso,2012-12-06 This volume contains the proceedings of the Eighth Taniguchi International Symposium on the Theory of Condensed Matter which was held at Shima Kanko Hotel in Shima Japan 10-13 April 1985 The topic of the Symposium was Valence Fluctuation and Heavy Fermion Systems one of the most fundamental problems in present day condensed matter physics The dilute Kondo problem

which is one of the most typical and unique many body problems in condensed matter physics developed recently into the dense Kondo and the coherent Kondo lattice problems in the 4f electron systems. It is accepted now that a large degeneracy in f electron systems makes this latter situation possible by enhancing the single site Kondo state relative to the inter site magnetic interactions. Now anomalous behavior in f electron systems show rich variety and are called valence fluctuation phenomena as a whole. They have however a common feature. In the lowest temperature region they show either heavy Fermion like character or a narrow gap formation at the Fermi energy. Discovery of superconductivity in the heavy Fermion systems is attracting more interest. Anyway the valence fluctuating states are thought to be of fundamental importance to bridge the gap between the localized magnetic states and the delocalized nonmagnetic states.

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### **Ternary Superconductors Introduction**

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