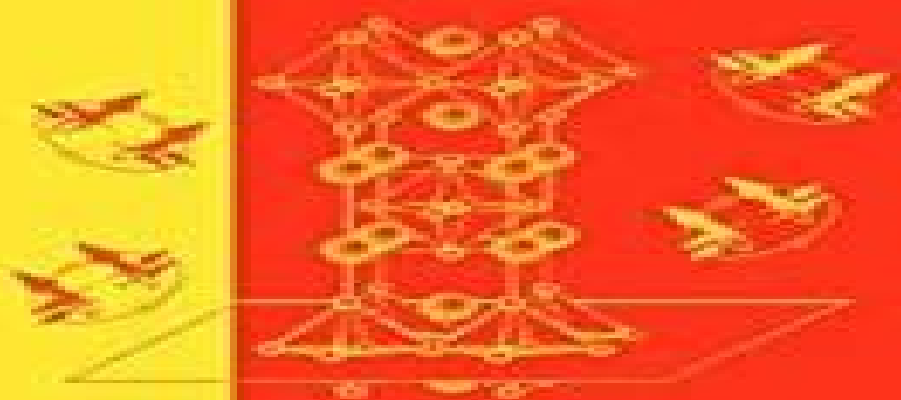




C. Noe, A. Vecchione  
M. Guoco, A. Romano (Eds.)

# Ruthenate and Rutheno-Cuprate Materials

Unconventional Superconductivity, Magnetism  
and Quantum Phase Transitions



Springer

# Ruthenate And Ruthenocuprate Materials

**Karl-Heinz Bennemann, John B.  
Ketterson**



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**Superconducting State** Vladimir Kresin, Sergei Ovchinnikov, Stuart Wolf, 2021-05-24 This book provides the reader with a detailed theoretical treatment of the key mechanisms of superconductivity up to the current state of the art phonons magnons plasmons In addition the book describes the properties of key superconducting compounds that are of most interest for science and its applications today For many years there has been a search for new materials with higher values of the main parameters such as the critical temperature and the critical current At present the possibility to observe superconductivity at room temperature has become perfectly realistic The book is especially concerned with high  $T_c$  systems such as the high  $T_c$  oxides hydrides with record values of the critical temperature under high pressure nanoclusters etc A number of interesting novel superconducting systems have been discovered recently Among them topological materials interface systems intercalated graphene The book contains rigorous derivations based on statistical mechanics and many body theory The book is also providing qualitative explanations of the main concepts and results which makes it accessible and interesting for a broader readership **Recent Developments in Superconductivity Research** Barry P.

Martins, 2007 Superconductivity is the ability of certain materials to conduct electrical current with no resistance and extremely low losses High temperature superconductors such as  $\text{La}_2\text{xSrxCuO}_x$   $T_c$  40K and  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$   $T_c$  90K were discovered in 1987 and have been actively studied since In spite of an intense world wide research effort during this time a complete understanding of the copper oxide cuprate materials is still lacking Many fundamental questions are unanswered particularly the mechanism by which high  $T_c$  superconductivity occurs More broadly the cuprates are in a class of solids with strong electron electron interactions An understanding of such strongly correlated solids is perhaps the major unsolved problem of condensed matter physics with over ten thousand researchers working on this topic High  $T_c$  superconductors also have significant potential for applications in technologies ranging from electric power generation and transmission to digital

electronics This ability to carry large amounts of current can be applied to electric power devices such as motors and generators and to electricity transmission in power lines For example superconductors can carry as much as 100 times the amount of electricity of ordinary copper or aluminium wires of the same size Many universities research institutes and companies are working to develop high Tc superconductivity applications and considerable progress has been made This volume brings together new leading edge research in the field     *The Physics of Superconductors* Karl-Heinz Bennemann, John B. Ketterson, 2011-06-27 This is the second volume of a comprehensive two volume treatise on superconductivity that represents the first such publication since the earlier widely acclaimed books by R Parks It systematically reviews the basic physics and recent advances in the field Leading researchers describe the state of the art in conventional phonon induced superconductivity high Tc superconductivity and in novel superconductivity including triplet pairing in the ruthenates The second volume is largely concerned with novel superconductors such as heavy fermion metals and organic materials and also includes granular superconductors Important new results on current problems are presented in a manner designed to stimulate further research Numerous illustrations diagrams and tables make this book especially useful as a reference work for students teachers and researchers Volume 1 treats Conventional and High Tc Superconductors 3 540 43883 1     *Ceramic Abstracts* ,2001     *Indian Science Abstracts* ,2007     *Chemical Abstracts* ,2002     **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2002 Theses on any subject submitted by the academic libraries in the UK and Ireland

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