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# **Strong Correlation and Superconductivity**

Editors: H. Fukuyama, S. Maekawa,  
and A. P. Malozemoff



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# Strong Correlation Superconductivity

**A. V. Narlikar**



## **Strong Correlation Superconductivity:**

**Strong Correlation and Superconductivity** Hidetoshi Fukuyama, Sadamichi Maekawa, Alexis P.

Malozemoff, 2012-12-06 This volume contains the proceedings of the 5th International Symposium on Strong Correlation and Superconductivity which was held in Keidanren Guest House at the foot of Mt Fuji May 21-25 1989 The purpose of the Symposium was to provide an opportunity for discussions on the problem of strong correlation of electrons in the context of high  $T_c$  superconductivity Sixty-eight scientists were invited from seven countries and forty-three papers were presented in the Symposium Soon after the discovery of high  $T_c$  superconducting oxides Professor P. W. Anderson proposed that the essence of high  $T_c$  superconductivity lies in the strong correlation among the electrons in these materials This proposal has stimulated a wide range of theoretical investigations on this profound and difficult problem which are expected to lead eventually to new concepts describing strong electron correlation In the Symposium Anderson himself started lively discussions by his talk entitled Myth and Reality in High  $T_c$  Superconductivity which was followed by various reports on theoretical studies and experimental results Concise and thoughtful summaries of experiment and theory were given by Professors H. R. Ott and P. A. Lee respectively It is our hope that this volume reflects the present status of the research activity on this outstanding problem from the viewpoint of the basic physics and that it will further stimulate the effort to understand these fascinating systems the high  $T_c$  oxides

**Theoretical Study of Electron Correlation Driven Superconductivity in Systems with Coexisting Wide and Narrow Bands** Daisuke Ogura, 2019-10-23 This book deals with the study of superconductivity in systems with coexisting wide and narrow bands It has been previously suggested that superconductivity can be enhanced in systems with coexisting wide and narrow bands when the Fermi level is near the narrow band edge In this book the authors study two problems concerning this mechanism in order to provide a systematic understanding of the role of strong electron correlation effects and propose a realistic candidate material which meets the ideal criteria for high  $T_c$  superconductivity Regarding the role of strong correlation effects the FLEX DMFT method is adopted Based on systematic calculations the pairing mechanism is found to be indeed valid even when the strong correlation effect is considered within the formalism In the second half of the book the authors propose a feasible candidate material by introducing the concept of the hidden ladder electronic structure arising from the combination of the bilayer lattice structure and the anisotropic orbitals of the electrons As such the book contributes a valuable theoretical guiding principle for seeking unknown high  $T_c$  superconductors

Emergent Phenomena in Correlated Matter Eva Pavarini, Erik Koch, Ulrich Schollwöck, 2013 **High Temperature Superconductivity** Krishna Behari Garg, Shyamalendu M. Bose, 1998 Collection of papers presented at a workshop **Proceedings of the International Conference on Materials and Mechanisms of Superconductivity, High Temperature Superconductors IV** Peter Wyder, 1994 **High Temperature Superconductivity** Kevin Bedell, Kevin Shawn Bedell, 1990 *Materials and Mechanisms of Superconductivity - High Temperature Superconductors*

Yu-Sheng He,1997-09-12 The discovery of high temperature superconductivity has not only opened many possibilities for potential technical applications but has also provided a unique challenging research subject for condensed matter physics and material sciences High temperature superconductivity appears in systems with strong electron correlation and constitutes one of the key issues in condensed matter physics The understanding of its mechanism will therefore greatly promote the future developments of this branch of science During the last ten years great progress has been made in both fundamental and application oriented research Expanding knowledge of the physical properties in the superconducting as well as the normal state in preparing the way to an understanding of the underlying mechanisms The accumulated experience in materials processing enables technical applications All these aspects of high T<sub>c</sub> superconductivity and recent work on traditional superconductors have been exposed at the Beijing conference The present volume is a separate edition of part I of the extensive Proceedings of the Fifth International Conference on Materials and Mechanisms of Superconductivity High Temperature Superconductors It contains the plenary tutorial and invited papers and gives a comprehensive account of the state of the art as of March 1997 **High Temperature Superconductivity** Guan-Jye Chen,1992 **Studies of High Temperature Superconductors** A. V. Narlikar,1991 The series covers leading areas of scientific and technological research of high T<sub>c</sub> materials Each of the 11 chapters in the seventh volume is a detailed review or an extended paper focusing on research and applications Annotation copyright Book News Inc Portland Or *Mechanisms of High Temperature Superconductivity* Petr Nikitovich Brusov,1999 High Temperature Superconductivity, Proceedings of LT-19 Satellite Conference, Cambridge, 13-15 August 1990 J. Evetts,1991-03 High Temperature Superconductivity contains the most up to date research in this fast moving subject There are contributions from important groups around the world working in this field The approach is interdisciplinary ensuring that this book will be of use to a large number of workers in different areas of research It contains important new contributions from leading workers including V L Ginzburg S Amelinckx and N Mott 135 contributions are included on a wide range of topics including the following Synthesis structure and properties of materials Processing of thin films and ceramics Flux movement and critical currents Applications High Temperature Superconductivity presents the most recent results in this exciting field and because of its interdisciplinary nature will be of great interest to all workers in low temperature physics superconductivity materials science and condensed matter physics This volume comprises the refereed Proceedings of the LT 19 Satellite Conference held in Cambridge in August 1990 It contains all the invited papers and also the oral and poster presentations **Proceedings of the International Conference on Strongly Correlated Electron Systems, SCES '93** Robert P. Guertin,1994 **High Temperature Superconductivity** Krityunjai Prasad Sinha,S. L. Kakani,1994 One of the most exciting developments in science in recent years is the discovery of high temperature superconductivity This significant discovery has posed the two new problems of making high temperature superconductivity materials available to technology at liquid nitrogen or even high temperatures on one hand and of

exploring the possible mechanism of high temperature superconductivity on the other This outstanding book aims at summarising results in this fast moving realm of research

AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors ,1991    **Superconductivity** ,1993    *Strong Correlation Theories of High Temperature Superconductors* ,1991    *Physics Briefs* ,1994    **Referativnyi zhurnal** ,1990    **Anisotropic Properties of High Transition Temperature Superconductors** Seung-Ho Han,1994    *Models and Phenomenology for Conventional and High-temperature Superconductivity* Società italiana di fisica,1998

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### **Strong Correlation Superconductivity Introduction**

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