



High-Tc Superconductors and Related Materials

By Drechsler, S.-L. / Mishonov, T.

Book Condition: New. Publisher/Verlag: Springer Netherlands | Materials Science, Fundamental Properties, and Some Future Electronic Applications | Proceedings of the NATO Advanced Study Institute, held in Albena, Bulgaria, 13-26 September 1998 | A broad introduction to high Tc superconductors, their parent compounds and related novel materials, covering both fundamental questions of modern solid state physics (such as correlation effects, fluctuations, unconventional symmetry of superconducting order parameter) and applied problems related to short coherence length, grain boundaries and thin films. The information that can be derived from electron spectroscopy and optical measurements is illustrated and explained in detail. Descriptions widely employ the clear, relatively simple, phenomenological Ginzburg-Landau model of complex phenomena, such as vortex physics, vortex charge determination, plasmons in superconductors, Cooper pair mass, and wetting of surfaces. The first comprehensive reviews of several novel classes of materials are presented, including borocarbides and chain cuprates. | Foreword and Preface; S.-L. Drechsler, T. Mishonov. 1: Electronic and Magnetic Structure of Cuprates. The electronic structure of high-Tc superconductors: introduction and recent studies of model compounds; J. Fink, et al. Fermi surface mapping by angle-scanned photoemission; P. Aebi. Magnetic properties of low-dimensional cuprates; K.-H. Müller. Electronic and magnetic properties of cuprate chains and related...



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