

Layered Superconductors

by Richard A Klemm

Shortly after discovery the high- T_c – superconductivity the significance of the layered structure for obtaining enhanced superconductivity of these materials was . Carrier Injection in Layered Superconductors Vortex phase diagram in layered superconductors and thermodynamics of vortex lattice melting. Alex Koshelev, Materials Science Division, Argonne National Layered Superconductors - Oxford Scholarship I-V characteristics of Josephson-coupled layered superconductors with longitudinal plasma excitations. T. Koyama. Institute for Materials Research, Tohoku Discovery of Josephson junctions generated in atomic-layered . 11 Dec 2014 . Discovery of Josephson Junctions Generated in Atomic-Layered Superconductors. The finding may pave the way to create atomic-scale This Research Front on LAYERED SUPERCONDUCTORS from the field of Space Science was selected for mapping from the list of Emerging Research Fronts . BiS₂-based layered superconductor Bi₄O₄S₃ The results of a theoretical study of the upper critical fields of layered superconducting compounds are presented. It is found that for sufficiently decoupled layers

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I-V characteristics of Josephson-coupled layered superconductors . Iron pnictide superconductors crystallize into the [FeAs] layered structure alternating with spacer or charge reservoir block. The compounds can thus be Vortex phase diagram in layered superconductors and . ?In 2011, the newest group of layered high-temperature superconductors were discovered: platinum-based quaternary 10-4-8 (Ca₁₀(Pt₄As₈)(Fe₂As₂)₅) and . Layered Superconductors - Google Books Result Layered Superconductors, Volume I, describes the chemistry and physics of all layered superconductors. Although widespread interest in the subject did not ?Tunneling Spectroscopy of Novel Layered Superconductors: MgB₂ . Big question Much is known about high temperature superconductors but little is known about their energetics. Why is it energetically favorable for electrons to Iron-Based Layered Superconductor - American Chemical Society . Continuous Ginzburg-Landau description of layered superconductors 24 Jun 2014 . New phosphide-chalcogenide layered superconductors, AP₂?xX_x (A = Zr, Hf; X = S, Se), have been discovered. When phosphorus and Magnetic properties of layered superconductors with weak . Covers all important classes of layered superconductors; Provides examples of structures and experiments of all of the materials classes; Treats the three . The upper critical field of layered superconductors - Springer In this review we consider three classes of superconductors, namely cuprate superconductors, MgB₂ and the new Fe based superconductors. All of these three The layered structure is a common feature of all the cuprate high- T_c superconductors: highly conducting CuO₂ planes which carry the superconducting electrons . Discovery of Josephson Junctions Generated in Atomic-Layered . The magnetic properties of layered superconductors with Josephson inteJ;action between the layers is considered. Differential-difference equations for the The mechanism of charge density wave in Pt-based layered . - Nature Layered Superconductors: Fabrication, Properties and Applications. Volume 275. Part of MRS Proceedings. Editors: D. T. Shaw, State University of New York, Layered superconductors as negative-refractive-index metamaterials 9 Oct 2015 . The Pt-based layered superconductors, SrPt₂As₂ and LaPt₂Si₂, of the present study belong to such quasi two-dimensional (2D) systems, Layered Superconductors - Oxford University Press 23 Feb 2008 . Iron-Based Layered Superconductor La[O_{1-x}Fx]FeAs (x) 0.05-0.12) conductors.2,3 Currently, high T_c superconductors are limited to layered LAYERED SUPERCONDUCTORS - Research Front Map . 26 Dec 2012 . BiS₂-based layered superconductor Bi₄O₄S₃. Yoshikazu Mizuguchi,^{1,4} Hiroshi Fujihisa,² Yoshito Gotoh,² Katsuhiko Suzuki,³ Hidetomo Usui Novel BiS₂-based layered superconductor Bi₄O₄S₃ Tunneling Spectroscopy of Novel Layered Superconductors: MgB₂, Li_{0.48}(THF)_xHfNCl and Related Substances (pp.1-110), \$0.00 Discovery of New Layered Phosphide-Chalcogenide Superconductors Carrier Injection in Layered Superconductors. Carrier Injection in Layered Superconductors. date: 11.05.2011. speaker: Sebastian Probst. time: 10:00 Iron-based superconductor - Wikipedia, the free encyclopedia Continuous Ginzburg-Landau description of layered superconductors. View the table of contents for this issue, or go to the journal homepage for more. Pinning and creep in layered superconductors - ScienceDirect The thermal- and disorder-induced effects in the mixed state of a layered high- T_c superconductor (in a field $H < c$) are studied. The flux line lattice is of a q . Layered Superconductors: Fabrication, Properties and Applications . 3 Feb 2015 . A 3-D diagram of an atomic-layered superconductor observed under the scanning tunneling microscope. The heights of atomic layers are The Casimir effect in layered superconductors - University of Waterloo Fluctuation Effect on the Excess Conductivity of Layered Superconductors. BY. ZHEN YE. By using thermo field dynamics (TFD) and Ginzburg-Landau theory, Platinum-Based and Platinum-Doped Layered Superconducting . 13 Jul 2012 . The first group is the Cu-oxide superconductors whose crystal structure of a new prototype of layered superconductors needs to be achieved. Interface superconductivity – Possible origin of high critical . Josephson effects in layered superconductors Fluctuation Effect on the Excess Conductivity of Layered . 1 Feb 2010 . We analyze the use of layered superconductors as strongly anisotropic metamaterials, which can possess negative-refractive-index in a wide Josephson effects in layered superconductors - CORDIS Layered

superconductors have been intensively studied since the discovery of the high-T_c cuprates. These materials contain one or more CuO₂ layers per unit Isotope and multiband effects in layered superconductors - IOPscience