

# Layered Superconductors

by Richard A Klemm

11 Dec 2014 . Discovery of Josephson Junctions Generated in Atomic-Layered Superconductors. The finding may pave the way to create atomic-scale The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners. The mechanism of charge density wave in Pt-based layered . - Nature Vortex phase diagram in layered superconductors and . Local electromagnetic waves in layered superconductors - IOPscience 3 Jun 2014 . of this article is not currently available. oa. Vortex motion in layered superconductors  $\text{Cu}_0.03\text{TaS}_2$ . Access full text Article. Read Online HTML. Josephson junctions generated in atomic-layered superconductors . Key words. layered superconductors, Lawrence-Doniach model, conductors, there has been a considerable interest in the properties of superconductors. Magnetic properties of layered superconductors with weak . 9 Oct 2015 . The Pt-based layered superconductors,  $\text{SrPt}_2\text{As}_2$  and  $\text{LaPt}_2\text{Si}_2$ , of the present study belong to such quasi two-dimensional (2D) systems, Platinum-Based and Platinum-Doped Layered Superconducting .

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In 2011, the newest group of layered high-temperature superconductors were discovered: platinum-based quaternary  $10\text{-}4\text{-}8$  ( $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)(\text{Fe}_2\text{As}_2)_5$ ) and . Vortex motion in layered superconductors  $\text{Cu}_0.03\text{TaS}_2$  - Scitation 3 Feb 2015 . Recently discovered atomic-layered superconductors on a silicon surface have the potential of developing into ultra-tiny, superconducting Abstract. The results of a theoretical study of the upper critical fields of layered superconducting compounds are presented. It is found that for sufficiently Fluctuation Effect on the Excess Conductivity of Layered . Josephson effects in layered superconductors - CORDIS Abstract. The behaviour of the order parameter and its effects in intrinsically-layered superconductors are studied within a continuous Ginzburg-Landau model. Pinning and creep in layered superconductors - ScienceDirect Fluctuation Effect on the Excess Conductivity of Layered Superconductors. BY. ZHEN YE. By using thermo field dynamics (TFD) and Ginzburg-Landau theory, Terahertz wave emission from layered superconductors . Layered superconductors as negative-refractive-index metamaterials 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. Field-independent anisotropy in layered superconductors. Author links open the overlay panel. Numbers correspond to the affiliation list which can be exposed Layered Superconductors - Oxford Scholarship Rectangular  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+?}$  ( $\text{Bi}_{2212}$ ) mesa structures were fabricated on as-grown  $\text{Bi}_{2212}$  single crystal superconductors using standard photolithography . LAYERED SUPERCONDUCTORS - Research Front Map . Vortex phase diagram in layered superconductors and thermodynamics of vortex lattice melting. Alex Koshelev, Materials Science Division, Argonne National the kinked vortices in layered superconductors in . - World Scientific 23 Feb 2008 . Iron-Based Layered Superconductor  $\text{La}[\text{O}_{1-x}\text{F}_x]\text{FeAs}$  ( $x$ ) 0.05-0.12) discovery of the Fe and Ni based superconductors,  $\text{LaOFeP}$  ( $T_c$  ?). The Casimir effect in layered superconductors - University of Waterloo 2 Mar 2012 . Since the discovery by the author and collaborators of superconductivity in the first truly layered compound,  $\text{TaS}_2(\text{pyridine})_{1/2}$ , there have been Layered Superconductors - Richard A. Klemm - Oxford University The upper critical field of layered superconductors - Springer Iron pnictide superconductors crystallize into the  $[\text{FeAs}]$  layered structure alternating with spacer or charge reservoir block. The compounds can thus be 3 Feb 2015 . A 3-D diagram of an atomic-layered superconductor observed under the scanning tunneling microscope. The heights of atomic layers are Continuous Ginzburg-Landau description of layered superconductors The magnetic properties of layered superconductors with Josephson inteJ;action between the layers is considered. Differential-difference equations for the Tunneling Spectroscopy of Novel Layered Superconductors:  $\text{MgB}_2$  . In the case of highly anisotropic layered superconductors, like Bi- or TI-based high- $T_c$  impetus after discovery of layered high- $T_c$  superconductors and the Layered Superconductors: Fabrication, Properties and Applications . The layered structure is a common feature of all the cuprate high- $T_c$  superconductors: highly conducting  $\text{CuO}_2$  planes which carry the superconducting electrons . Iron-Based Layered Superconductor - American Chemical Society . Layered Superconductors, Volume I, describes the chemistry and physics of all layered superconductors. Although widespread interest in the subject did not Layered Superconductors - Google Books Result In highly layered high- $T_c$  superconductors in the presence of a magnetic field having an angle with respect to the planes, a system of vortex kinks is a more . Discovery of Josephson Junctions Generated in Atomic-Layered . Tunneling Spectroscopy of Novel Layered Superconductors:  $\text{MgB}_2$ ,  $\text{Li}_0.48(\text{THF})_x\text{HfNCl}$  and Related Substances (pp.1-110), \$0.00 Discovery of Josephson junctions generated in atomic-layered . 1 Feb 2010 . We analyze the use of layered superconductors as strongly anisotropic metamaterials, which can possess negative-refractive-index in a wide Iron-based superconductor - Wikipedia, the free encyclopedia 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  $q$ . On the Lawrence-Doniach model for layered superconductors This Research Front on LAYERED SUPERCONDUCTORS from the field of Space

Science was selected for mapping from the list of Emerging Research Fronts . Novel BiS<sub>2</sub>-based layered superconductor Bi<sub>4</sub>O<sub>4</sub>S<sub>3</sub> Big question Much is known about high temperature superconductors but little is known about their energetics. Why is it energetically favorable for electrons to Field-independent anisotropy in layered superconductors