

High Temperature Superconductors And Other Superfluids

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Intro to high-temperature superconductors - MagLab
High-temperature superconductors are operatively defined as materials that behave as superconductors at temperatures above nearly -200°C . This is in fact the lowest temperature reachable by liquid nitrogen, one of the simplest coolant in cryogenics. All superconducting materials known at ordinary pressures currently work far below ambient temperatures and therefore require cooling. The majority of high-temperature superconductors are ceramics materials. On the other hand, Metallic ...

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Phys.org - high temperature superconductors

The current status of basic research on the high temperature cuprate superconductors and prospects for technological applications of these materials is discussed. Recent developments concerning other novel superconductors are also briefly described. Keywords: Superconductivity – high-T_c, superconductors – ceramic, correlations – electronic,

High Temperature Superconductors

Although copper oxide high-temperature superconductors constitute a complex and diverse material family, they all share a layered lattice structure. This curious fact prompts the question of ...

Theorists probe the relationship between 'strange metals

...

The remarkable feature of IBSCs is that high-temperature superconductivity (higher T_c, larger anisotropy, stronger thermal fluctuation) and rather conventional metallic superconductivity (lower T_c, smaller anisotropy, weaker thermal fluctuation) , are mixed in various compounds sharing the tetragonal lattice of iron.

Superconductivity - Higher-temperature superconductivity ...

High Temperature Superconductors And Other Superfluids [A S Alexandrov, Nevill Mott] on Amazon.com. *FREE* shipping on qualifying offers. Written by eminent researchers in the field, this text describes the theory of superconductivity and superfluidity starting from liquid helium and a charged Bose-gas. It also discusses the modern bipolaron theory of strongly coupled superconductors

High Temperature Superconductors And Other

Possible applications of the high-temperature superconductors in thin-film or bulk form include the construction of computer parts (logic devices, memory elements, switches, and interconnects), oscillators, amplifiers, particle accelerators, highly sensitive

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devices for measuring magnetic fields, voltages or currents, magnets for medical magnetic-imaging devices, magnetic energy-storage systems, levitated passenger trains for high-speed travel, motors, generators, transformers, and ...

High Temperature Superconductivity - arXiv

of high-temperature superconductivity is found in a proper combination of strong electron-electron correlations with a significant finite-range (Frohlich) EPI, and that the theory is fully compatible

High Temperature Superconductors And Other Superfluids: A ...

Written by eminent researchers in the field, this text describes the theory of superconductivity and superfluidity starting from liquid helium and a charged Bose-gas. It also discusses the modern bipolaron theory of strongly coupled superconductors, which explains the basic physical properties of high-temperature superconductors. This book will be

High-temperature superconductivity - Wikipedia

The best known high-temperature superconductors are bismuth strontium calcium copper oxide, BSCCO and yttrium barium copper oxide, YBCO.

High Temperature Superconductors And Other Superfluids ...

High-temperature superconductors are used in experimental apparatus, and they are actively being researched, particularly in thin film applications. Figure 2. One characteristic of a superconductor is that it excludes magnetic flux and, thus, repels other magnets.

High Temperature Superconductors And Other Superfluids, A ...

In many high-temperature superconductors, changing the temperature or the number of free-flowing electrons in the material can flip it from a superconducting state to a strange metal state or vice ...

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The record for high-temperature superconductivity has been ...

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High Temperature Superconductors And Other Superfluids ...

The high temperature superconductors are ceramic materials with layers of copper-oxide spaced by layers containing barium and other atoms. The yttrium compound is somewhat unique in that it has a regular crystal structure while the lanthanum version is classified as a solid solution.

High Temperature Superconductivity: the explanation

Now he hopes to apply his insights to high-temperature superconductors themselves. Quanta Magazine spoke with Sachdev about how the electrons in high-temperature superconductors are related to black holes, his recent success with graphene, and why the biggest name in condensed-matter physics is skeptical that the string-theory approach works at ...

High-temperature Superconductors | Physics

High Temperature Superconductors And Other Superfluids - CRC Press Book Written by eminent researchers in the field, this text describes the theory of superconductivity and superfluidity starting from liquid helium and a charged Bose-gas.

High-temperature superconductivity in monolayer Bi 2 Sr 2 ...

Magnesium diboride (MgB_2) was discovered to be a high T_c superconductor in 2001. It actually falls somewhere between a low-temperature and high-temperature superconductor. It appears to work, at least in part, like a low-temperature superconductor: via a phenomenon known as Cooper pairs. (By contrast, scientists don't yet understand the ...

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Taming Superconductors With String Theory | Quanta Magazine

High-Temperature Superconductivity considered HTS as a specific case study in the context of broader issues in U.S. industrial competitiveness and technology policy, the present work focuses more on the technology itself and the spectrum of potential applications.

High-Temperature Superconductivity in Perspective

Having said that, the news today that the record for high-temperature superconductivity has been smashed is worth looking at in more detail. ... some 10 degrees warmer than any other material.