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High Temperature Superconductivity The Road

High Temperature Superconductivity: The Road to Higher Critical Temperature (Springer Series in Materials Science) Softcover reprint of the original 1st ed. 2015 Edition by Shin-ichi Uchida (Author)

Superconductivity - Higher-temperature superconductivity ...

Brookhaven Lab physicists (from left to right) Genda Gu, Tonica Valla, and Ilya Drozdov at OASIS, a new on-site experimental machine for growing and

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characterizing oxide thin films, such as those of a class of high-temperature superconductors (HTS) known as the cuprates.

Making High-Temperature Superconductivity Disappear to ...

The scientists conducted neutron scattering experiments at the Department of Energy's Oak Ridge National Laboratory on samples of zirconium vanadium hydride at atmospheric pressure and at temperatures from -450 degrees Fahrenheit (5 K) to as high as -10 degrees Fahrenheit (250 K) — much higher than the temperatures where superconductivity ...

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To Understand High-Temperature Superconductivity ...

Making High-Temperature Superconductivity Disappear to Understand Its Origin Scientists have collected evidence suggesting that a purely electronic mechanism causes copper-oxygen compounds to conduct electricity without resistance at temperatures well above absolute zero.
February 3, 2020

High temperature superconductivity : the road to higher ...

Readers will receive in-depth information on the past, present, and future of high-temperature superconductors, along with special, updated information on what the real highest T_c values are and particularly on the possibility of enhancing T_c for each member material, which is important for application.

High Temperature

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Superconductivity: The Road to Higher ...

High temperature superconductivity : the road to higher critical temperature. [Shin-ichi Uchida] -- This book presents an overview of material-specific factors that influence T_c and give rise to diverse T_c values for copper oxides and iron-based high- T_c superconductors on the basis of more than 25 ...

High Temperature Superconductivity - The Road to Higher ...

High Temperature Superconductivity: The Road to Higher Critical Temperature (Springer Series in Materials Science) by Shin-ichi Uchida. Click here for the lowest price! Hardcover, 9784431552994, 4431552995

High Pressure and Road to Room Temperature Superconductivity

Readers will receive in-depth information on the past, present, and future of high-temperature superconductors, along

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with special, updated information on what the real highest T_c values are and particularly on the possibility of enhancing T_c for each member material, which is important for

High Temperature Superconductivity: The Road to Higher ...

The Road to Higher Critical Temperature. ... This is an unprecedented new approach to the problem of high-temperature superconductivity and thus will be inspiring to both specialists and non-specialists interested in this field. Readers will receive in-depth information on the past, present, and future of high-temperature superconductors ...

New record set for high-temperature superconductivity

The origin of high-temperature superconductivity is still not clear, but it seems that instead of electron-phonon attraction mechanisms, as in conventional superconductivity, one is

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dealing with genuine electronic mechanisms (e.g. by antiferromagnetic correlations), and instead of conventional, purely s-wave pairing, more exotic pairing symmetries are thought to be involved (d-wave in the case of the cuprates; primarily extended s-wave, but occasionally d-wave, in the case of the iron-based ...

High Temperature Superconductivity: The Road to Higher ...

Title: High Pressure and Road to Room Temperature Superconductivity.

Abstract: High pressure serves as a path finding tool towards novel structures, including those with very high T_c . The superconductivity in sulfur hydrides with record value (203 K) is caused by the phonon mechanism.

High-temperature superconductivity - Wikipedia

High-temperature superconductivity (HTS) is among many phenomena

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occurring due to strong interactions between electrons, making it difficult to determine where it comes from.

Making high-temperature superconductivity disappear to ...

Discovery and composition of high-temperature superconductors. Ever since Kamerlingh Onnes discovered that mercury becomes superconducting at temperatures less than 4 K, scientists have been searching for superconducting materials with higher transition temperatures.

High Temperature Superconductivity | SpringerLink
Superconductors have all manner of uses, from MRI scanners to fusion reactors, but they're application is limited by the fact that most only work at temperatures below -234°C (-389°F).

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