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ManyBooks is a nifty little site that's been around for over a decade. Its purpose is to curate and provide a library of free and discounted fiction ebooks for people to download and enjoy.

# Read Book High Temperature Superconductivity

## **High Temperature Superconductivity The Road**

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

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material, which is

important for

application.

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...

This is an

unprecedented new

approach to the

problem of high-

temperature

superconductivity and

thus will be inspiring to

both specialists and

non-specialists

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Kindle edition by

Uchida, Shin-ichi.

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The Road To  
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Presents a historical  
overview of the  
discovery of new  
superconducting  
materials with a high  
superconducting  
critical temperature;  
Covers the role of  
disorder in high-T<sub>c</sub>  
superconductivity,  
which is not treated in

# Read Book High Temperature

other booksEncourages readers to take part in the two grand challenges in condensed matter physics: finding a road toward higher  $T_c$  and resolving the mechanism

## **High Temperature Superconductivity - The Road to Higher**

...

High temperature  
superconductivity : the  
road to higher critical

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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-pressure

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The Road To

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Temperature

of 260 K at 180 to 200

GPa say George

Washington University  
researchers

**On the road to room-  
temperature**

**superconductivity ...**

On the road to fault-  
tolerant quantum

computing: High  
temperature

superconductivity in a

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Superconductivity  
topological insulator

The Road To  
Higher Critical  
Temperature  
**On the road to fault-  
tolerant quantum  
computing: High ...**

Scientists have induced  
high temperature  
superconductivity in a  
topological insulator, an  
important step on the  
road to fault-tolerant  
quantum computing.

**On the road to fault-  
tolerant quantum  
computing: High ...**

A hydrogen-rich

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## Temperature

material becomes

superconductive under  
high pressure and at  
minus 23 degrees

Celsius. May 24, 2019.

Fewer power plants,  
less greenhouse gases  
and lower costs:

enormous amounts of  
electricity could be  
saved if researchers  
discovered the key to  
superconductivity at  
environmental  
temperatures. Because  
superconductors are  
materials that conduct

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electric energy without losses.

## **Superconductivity at minus 23 degrees Celsius and high ...**

High-temperature superconductors (abbreviated high-T<sub>c</sub> or HTS) are operatively defined as materials that behave as superconductors at temperatures above nearly 73.15 K (−200 °C ). This is in fact the lowest temperature

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Superconductivity  
The Road To Higher Critical Temperature  
reachable by liquid nitrogen, one of the simplest coolants in cryogenics.

## High-temperature superconductivity - Wikipedia

An international FLEET collaboration publishing a review of atomically-thin 'high temperature' superconductors finds that each has a common driving mechanism: interfaces.



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## **High-temperature superconductivity news and latest updates**

Stanford physicist's quest for the perfect keys to unlock the mysteries of superconductivity For decades Z-X Shen has ridden a wave of curiosity about the strange behavior of electrons that can ...

**Unlocking the**  
*Page 17/26*

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**mysteries of  
superconductivity |  
Stanford News**

"The phenomenon of high-temperature superconductivity has been thoroughly investigated for decades, but nobody has cracked the problem yet," says Neven Bariši. "Quite a few materials show...

**Superconductors:  
Resistance is futile  
-- ScienceDaily**

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A high-temperature superconductor levitating above a magnet.

Superconductivity is a set of physical properties observed in certain materials where electrical resistance vanishes and magnetic flux fields are expelled from the material. Any material exhibiting these properties is a superconductor.

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Superconductivity -

Wikipedia To

The arguments  
suggesting that

metallic hydrogen,

either as a monatomic  
or paired metal, should

be a candidate for high  
temperature

superconductivity are  
shown to apply with

comparable weight to  
alloys of metallic

hydrogen where

hydrogen is a

dominant constituent,

for example, in the

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Superconductivity  
dense group IVa  
hydrides.

**Hydrogen dominant  
metallic alloys: high  
temperature ...**

High-temperature  
superconductors  
exhibit  
superconductivity  
above 30 K  
( $-243.2\text{ }^{\circ}\text{C}$ ). While a  
traditional  
superconductor must  
be cooled with liquid  
helium to become  
superconductive, a

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high-temperature  
superconductor can be  
cooled using liquid  
nitrogen. A room-  
temperature  
superconductor, in  
contrast, could be  
cooled with ordinary  
water ice.

## **In Search of Room- Temperature Superconductors**

The cause of the  
relatively high  
transition temperature  
of  $H(3)S$  is its hydrogen

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atoms, which resonate with an especially high frequency within the crystal lattice.

**On the road to  
conductors of the  
future | EurekAlert**

...

A recent collaboration among researchers at the MagLab and the Max Plank Institute for Chemistry characterized the high-magnetic-field properties of the

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hydride

superconductors, the latest leap forward on the road to room-temperature

superconductivity.

Hydrogen sulfide, a gas that smells like rotten eggs, first becomes metallic then superconducting when squeezed between two anvils made of diamonds to pressures above one million atmospheres.



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## Superconductivity Hydride under extreme magnetic fields and ...

When it comes to high-temperature superconductors, “high” is a relative term. In the field of superconductivity, “high temperature” means anything that can still be superconductive over 30 degrees Kelvin (K), or a balmy -405 degrees Fahrenheit (F).

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