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Everything QC0099: Dr. John G.

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Superconductors [Year 1] Steve
Kivelson - Low energy physics of the
cuprate high temperature
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High-temperature superconductors
for efficient current conduction

Cuprate High-Temperature

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by Dennis NewsQC0100: Dr. John G.

Williamson: Room Temperature

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Temperature Superconductors

Superconducting Quantum Levitation
on a 3 Möbius Strip First Room
Temperature Superconductor in the
World - An Interview with Dr. Ranga
Dias World's 1st Ever Room-
Temperature Superconductor from
Prof. Ranga Dias' Lab [w/ English cc]

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Temperature Superconducting
Devices in the Power Grid: CIGRE Part
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The strange quantum physics of the
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Subir Sachdev

High Temperature Superconductors 1

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Electrons in a high temperature
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Superconducting

UB RENEW scientists probe second-
generation, high-temperature
superconducting wires. A University
at Buffalo-led research team is

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Temperature findings concerning
high-temperature superconducting...

UB RENEW scientists probe second-
generation, high...

UB RENEW scientists probe second-
generation, high-temperature
superconducting wires. Researchers

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Used a high-resolution, scanning transmission electron microscope to see atomic structures of a YBCO superconductor. The yttrium, barium, and copper atoms are labeled by yellow, red, and blue dots. The periodic arrays of atoms with spacing less than 0.24 nanometers can be

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Identified in the undamaged area,
while the disrupted periodic structure
in the form of amorphous
nanodefects appears in areas ...

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generation, high ...

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generation, high-temperature superconducting wires. Researchers used a high-resolution, scanning transmission electron microscope to see atomic structures of a YBCO superconductor. The yttrium, barium, and copper atoms are labeled by yellow, red, and blue dots. The

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periodic arrays of atoms with spacing less than 0.24 nanometers can be identified in the undamaged area, while the disrupted periodic structure in the form of amorphous nanodefects appears in areas ...

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generation, high...

This paper presents the modeling of second generation (2 G) high-temperature superconducting (HTS) pancake coils using finite element method. The axial symmetric model can be used to calculate current and magnetic field distribution inside the

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coil. The anisotropic characteristics of 2 G tapes are included in the model by direct interpolation.

Study of second generation, high-temperature ...

Second generation high temperature superconducting (2G-HTS) tapes are

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Considered one of the most promising practical superconductors that can be used in power and magnet applications. For typical applications, even just prototypes, several hundreds of kilometers of high performance and long length 2G-HTS tapes are usually needed.

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Progress in fabrication of second generation high ...

Advances in second generation high temperature superconducting wire manufacturing and R&D at American Superconductor Corporation View the table of contents for this issue, or go

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to the journal...

Superconducting Coils And
(PDF) Advances in second generation
Their Applications For
high temperature ...

Yuan, W.(2010). Second-generation
high-temperature superconducting
coils and their applications for energy
storage (Doctoral thesis).

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<https://doi.org/10.17863/CAM.13986>.

Description. The full text of this thesis is not available due to ongoing discussions regarding publication.

Abstract. Since a superconductor has no resistance below a certain temperature and can therefore save a large amount of energy dissipated, it

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is a 'green' material by saving energy loss and hence reducing carbon ...

Second-generation high-temperature superconducting coils ...

Second generation (2G) YBCO high temperature superconductor wire, based on the RABiTS/MOD process, is

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Temperature
now being produced in continuous lengths at American superconductor (AMSC) using a full-scale,...

Their Applications For
(PDF) The Development of Second
Generation HTS Wire at ...

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It is widely believed that the second-generation high-temperature

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superconducting (2G HTS) tapes with magnetic substrates suffer higher transport loss compared to those with non-magnetic substrates. To test this, we prepared two identical coils with magnetic and non-magnetic substrates, respectively.

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Alternating current loss of second-generation high ...

To validate the T-A formulation model, it is used to simulate racetrack coils made of second generation high temperature superconducting (2G HTS) tape, and the results are compared with the experimentally

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obtained data on the AC loss. The results show that the T-A formulation is accurate and efficient in calculating 2G HTS coils, including magnetic field distribution, current density distribution, and AC loss.

A finite element model for simulating

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Temperature ...

With the discovery of the cuprate-based high temperature superconductors, first generation high temperature superconducting (1G HTS) tapes represented by BSCCO (Bismuth Strontium Calcium Copper Oxide) Ag-sheathed conductors and

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second-generation high temperature
superconducting (2G HTS) tapes
represented by YBCO (Yttrium Barium
Copper Oxide) coated conductors
have appeared successively [1,2].

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Study on Quenching Characteristics
and Resistance ...

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Summarized benefits of second generation high temperature superconducting wire and devices Superpower inc believes that with the vortex pinning properties of YCBO and the grain boundary properties of BSCCO 2212 that it could be possible at colder temperatures to achieve

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magnets with over 100 Tesla in field strength.

High Temperature Superconductor
Status and Future ...

The findings unlock data for enabling higher performance superconducting wires for large-scale applications in

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Temperature
applied magnetic fields.

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UB RENEW scientists probe second-generation, high-temperature superconducting wires Researchers used a high-resolution, scanning

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transmission electron microscope to see atomic structures of a YBCO superconductor. The yttrium, barium and copper atoms are labeled by yellow, red and blue dots.

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Second-generation high-temperature superconducting (2G HTS) tape is used in magnets and cables because of its outstanding electromagnetic characteristics. However, with the development of winding technology, thinner tapes are required in the construction of magnets.

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Effect of substrate thickness on
interfacial adhesive ...

Superconducting wires are electrical
wires made of superconductive
material. When cooled below their
transition temperatures, they have
zero electrical resistance. Most

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Commonly, conventional superconductors such as niobium-titanium are used, but high-temperature superconductors such as YBCO are entering the market.

Superconducting wire's advantages over copper or aluminum include higher ...

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Superconducting wire - Wikipedia
Second-generation high temperature
superconducting wires, with
significantly higher transition
temperatures, are mainly made up of
rare Earth compounds such as
yttrium, samarium, and neodymium.

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Superconducting Wire Market set to
record exponential ...

We present the development of a
second generation digital readout
system for photon counting
microwave kinetic inductance
detector (MKID) arrays operating in

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Temperature
the optical and near-infrared
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