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2013 Second generation high-temperature superconducting ...

In this work, the development of a superconducting joint between GdBa₂Cu₃O_{7-x}-based second-generation high temperature superconducting tapes

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using a thin $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ intermediate layer is presented. The critical current of the superconducting joint was 18A, which is about 30% of the current in the original tape.

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

With the discovery of the cuprate-based

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high temperature superconductors, first generation high temperature superconducting (1G HTS) tapes represented by BSCCO (Bismuth Strontium Calcium Copper Oxide) Ag-sheathed conductors and second-generation high temperature superconducting (2G HTS) tapes represented by YBCO (Yttrium Barium

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Copper Oxide) coated conductors have appeared successively [1,2].

Second Generation High Temperature Superconducting Wire

...

Second-generation, high temperature superconducting coils have drawn great attention in recent years, owing to the

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highly developed fabrication technology for 2G, HTS, and coated conductors. Their potential operation at relatively high temperature makes them good candidates for power applications.

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

A University at Buffalo-led research

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team is reporting new findings concerning high-temperature superconducting wires, a field of study with implications in medical imaging, transportation and ...

High-temperature superconductivity - Wikipedia

Advances in second generation high

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temperature superconducting wire
manufacturing and R&D at American
Superconductor Corporation December
2009 Superconductor Science and
Technology 23(1):014015

**Study of second generation, high-
temperature ...**

Second-generation high-temperature

Download File PDF Second Generation High Temperature Superconducting Coils And Their Applications For Energy Storage. View / Open Files. Thesis (PDF, 7Mb) Authors. Yuan, Weijia. Advisors. Coombs, Tim. Date 2010-11-16. ... Recently the massive manufacture of high-temperature superconducting (HTS) ...

An Electromagnetic-Thermal

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Coupling Numerical Study of the ...

One of the leaders in the field in High Temperature Superconductivity (HTS), Fujikura has achieved numerous technical milestones and records with our 2 nd generation Yttrium-Based Copper Oxide (YBCO) High Temperature Superconducting tapes (2G HTS) manufactured using our original

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fabrication techniques which we have developed over the past 20 years. FEL is proud to introduce our 2G HTS tapes

...

Fujikura Europe Ltd > Second Generation YBCO High ...

Superconducting wires are electrical wires made of superconductive material.

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When cooled below their transition temperatures, they have zero electrical resistance. Most 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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UB RENEW scientists probe second-generation, high ...

The research team - also consisting of researchers from American Superconductor, Brookhaven National Lab, and Brookhaven Technology Group - explored properties of American Superconductor's standard second-

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generation high-temperature
superconducting coil wire.

**Superconducting joint fabrication
for HTS second ...**

High-temperature superconductors
(abbreviated high- T_c or HTS) are
operatively defined as materials that
behave as superconductors at

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temperatures above 77 K ($-196.2\text{ }^{\circ}\text{C}$; $-321.1\text{ }^{\circ}\text{F}$), the boiling point of liquid nitrogen, one of the simplest coolants in cryogenics. All superconducting materials known at ordinary pressures currently work far below ambient temperatures and therefore require ...

Second-generation high-

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

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kilometers of high performance and long
Length 2G-HTS tapes are usually needed.
Their Applications For Energy
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**Second Generation High
Temperature Superconducting**

A UB-led research team is reporting new findings concerning high-temperature superconducting wires, a field of study

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with implications for medical imaging, transportation and numerous other sectors. The study, published Sept. 10 in Nature's Scientific Reports , was led by scientists at UB's RENEW Institute, which focuses on solving complex energy and environmental issues.

Study on Quenching Characteristics

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The turbine, which uses high-temperature superconductors in its generator, could form the basis of future high-capacity wind energy systems. A Denmark-based consortium called EcoSwing has designed, developed and manufactured a full-size superconducting generator for a 3.6 MW

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wind turbine, and subjected it to its first trial in which, as they report in the journal Superconductor Science and ...

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

This paper presents the modeling of second generation (2 G) high-temperature superconducting (HTS)

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pancake coils using finite element method. The axial symmetric model can be used to calculate current and magnetic field distribution inside the coil. The anisotropic characteristics of 2 G tapes are included in the model by direct interpolation. The model is validated by comparing to ...

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**A finite element model for
simulating second generation...**

The second-generation high temperature superconductor (2G HTS) wire is the most promising conductor for high-field magnets such as accelerator dipoles and compact fusion devices.

(PDF) Advances in second

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generation high temperature ...

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 obtained data on the AC loss.

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**Superconducting wind turbine
passes first test | The ...**

Second-Generation High-Temperature
Superconducting Armatures Xiangyu
Huang 1, Zhen Huang 1,* , Xiaoyong Xu
1, ... Second-generation(2G)high-temper
aturesuperconducting(HTS)generatorsar
epromisingbecause they can achieve a
higher power density compared to

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Progress in fabrication of second generation high ...

Second Generation High Temperature Superconducting Wire: Fabrication, Properties, and Potential Applications
Andrei Rar, Yi-Yuan Xie, Drew Hazelton, Yimin Chen, Xuming Xiong, Ed Zhang,

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and Venkat Selvamanickam SR 2008,
June 2008, Novosibirsk, Russia
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