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IMPROVING YBCO COATED CONDUCTORS FOR APPLICATIONS P. N. Barnes¹, B. C. Harrison¹, J. W. Kell¹, G. A. Levin¹ and M. D. Sumption² ¹ Air Force Research Laboratory

Critical current density and flux pinning in

It is found that silver enhances flux pinning in the in silver/superconductor composites and AC field dependence of the loss peaks in the

Modeling and electrical measurement of transport

Index Terms AC loss, coated conductors, Duckworth, AC losses in RABiTS-based conductors, in Flux Pinning and AC Loss Studies on YBCO Coated Conductors

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High-t c superconducting thin- and

High-T c Superconducting Thin- and Thick-Film Based Coated Conductors for for YBCO-coated conductors. Flux pinning and AC loss studies on YBCO coated

Strongly enhanced flux pinning in one-step

flux pinning has been also one of the most important Maiorov B. & Civale L. in Flux Pinning and AC Loss Studies on YBCO Coated Conductors. eds

Superconductor with improved flux pinning and

Superconductor with Improved Flux Pinning and Reduced AC Losses flux pinning and reduced AC losses Modulates the level of AC loss reduction, flux pinning,

Flux pinning characteristics of ybco coated

Flux pinning properties of PLD-processed YBCO coated conductors deposited on Research Laboratory, 2-4-1 of pinning interactions among pinning centers along

Flux pinning by discontinuous columnar defects in

Perspectives on Flux Pinning in the MBCO Coated Conductor. pinning by discontinuous columnar defects in 74 MeV damage tracks in YBCO coated conductors,

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5.1 examination of the irradiated superconducting

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Electromechanical studies for coated conductor

Electromechanical Studies for . Coated Conductor Development. Danko van der Laan, Advanced Cables and Conductors Program Peer Review. June 30th, 2010,

Flux pinning in superconductors (springer series

Flux Pinning in Superconductors (Springer Series in Solid-State Sciences) Irreversible magnetization and AC loss caused by the flux pinning are also discussed.

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The book covers the flux pinning Irreversible magnetization and AC loss caused by the flux pinning reversible flux motion inside pinning

Chemical solution deposition based oxide buffers

Chemical Solution Deposition Based Oxide Buffers and YBCO Coated Conductors to increase the flux pinning properties of YBCO superconductor and to

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Power and thermal technologies for air and

to fully characterize AC loss issues, flux pinning 0012: High-Temperature Superconductor Performance AC losses in YBCO coated conductors 3)

Recent progress in thickness related studies to

Recent Progress in Thickness Related Studies to Enhance I_c in ex situ YBCO Coated Conductors the microstructure and flux pinning,

Ac losses - department of materials science and

of multifilamentary YBCO for low AC loss coated conductors AC losses in striated YBCO coated conductors AC losses and Flux Pinning and

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New research on ybco superconductors

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Extension to AC Loss Minimisation in High Temperature Superconductors AC loss measurements of YBCO coated conductors on AC Losses and Flux Pinning

Applied superconductivity and cryoscience group -

Members of ASCG have been involved with YBCO research since and flux pinning in Y-Ba of multifilamentary YBCO for low AC loss coated conductors

Ac loss part i - kit

Outline of Part I: 1. What is AC loss 2. Dissipation mechanisms: Resistive Eddy currents Flux pinning Coupling currents 3. Possibilities for AC loss reduction

An improved fem model for computing transport ac

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