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Of The Magnetic Penetration
Depth In A

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Determination Of The Magnetic Penetration

where the scanning height and the magnetic penetration depth combine in a single inseparable parameter. The derived London penetration depth λ_L coincides with the values previously reported for bulk Pb once the kinetic suppression of the order parameter is properly taken into account.

Determination of the magnetic penetration depth in a ...

The derived London penetration depth λ_L coincides with the values previously

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reported for bulk Pb once the kinetic suppression of the order parameter is properly taken into account. By means of scanning Hall probe microscopy technique, we accurately map the magnetic field pattern produced by Meissner screening currents in a thin superconducting Pb stripe.

Determination of the magnetic penetration depth in a ...

Polarized neutron reflectometry was used for the direct measurement of the magnetic-field penetration depth in a high-temperature (HT c) superconducting film. Two scattering geometries were used. The deduced neutron scattering length density profile gave an exact picture of the composition of the film.

Determination of the magnetic field penetration depth in ...

Determination of magnetic penetration depth from the reversible magnetization in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$: Dependence on

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weak disorder and interlayer coupling
Article (PDF Available) in Physical
review.

(PDF) Determination of magnetic penetration depth from the ...

Determination of magnetic penetration
depth from the reversible magnetization
in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$: Dependence
on weak disorder and interlayer coupling
Rykov, Alexandre I. Tamegai, Tsuyoshi

Determination of magnetic penetration depth from the ...

The average penetration depth was
inferred to be $7040 \pm 350 \text{ \AA}$. Our
approach to determine the penetration
depth, the saddle-point field analysis, is
insensitive to distortion of the flux lattice
associated with pinning. This is in
contrast to the more commonly used
second-moment method.

Determination of magnetic penetration depth from saddle ...

Determination of magnetic penetration

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depth from saddle-point field analysis in $Tl_2Ba_2Ca_2Cu_3O_{10+\delta}$. Song Y, Lee M, Halperin WP, Tonge LM, Marks TJ. PMID: 10002136 [PubMed - as supplied by publisher]

Determination of magnetic penetration depth from saddle ...

Penetration depth is a measure of how deep light or any electromagnetic radiation can penetrate into a material. It is defined as the depth at which the intensity of the radiation inside the material falls to $1/e$ of its original value at the surface. When electromagnetic radiation is incident on the surface of a material, it may be reflected from that surface and there will be a field containing energy transmitted into the material. This electromagnetic field interacts with the atoms and electro

Penetration depth - Wikipedia

Surface Resistance and Magnetic Penetration Depth We calculated the surface resistance R , and the magnetic

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penetration depth δ from the microwave complex conductivity. The real and imaginary parts of the complex conductivity are given in terms of the power transmission coefficient T and the phase shift ϕ by

Determination of Surface Resistance and Magnetic ...

Magnetic particle Inspection is a non-destructive testing process for detecting surface and shallow subsurface discontinuities in ferromagnetic materials such as iron, nickel, cobalt, and some of their alloys. The process puts a magnetic field into the part. The piece can be magnetized by direct or indirect magnetization. Direct magnetization occurs when the electric current is passed through the test object and a magnetic field is formed in the material. Indirect magnetization occurs when no el

Magnetic particle inspection - Wikipedia

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Penetration depth is a measure of how deeply light can penetrate into a medium. It is defined as the depth at which the intensity of the radiation inside the medium falls to $1/e$ of its original value. Knowledge of the penetration depth is essential for evaluation of interrogation volume while measuring optical properties of tissue.

Penetration Depth - an overview | ScienceDirect Topics

In reality, finite screening currents run in a thin layer close to the sample's surface and the field penetrates into the superconductor over a material dependent distance k called the magnetic penetration depth.

Determination of the magnetic penetration depth in a ...

"a ELSEVIER PMICA T Physica C 233 (1994) 273-280 A g.SR determination of the penetration depth in superconducting YNi_2B_2C R. Cywinski a, Z.P. Han a, R. Bewley a, R. Cubitt b, M.T.

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Wylie b, E.M. Forgan b, S.L. Lee M.
Warden 1, S.H. Kilcoyne d a J.J. Thomson
Physical Laboratory, University of
Reading, Reading RG62AF , UK 'School
of Physics and Space Research,
Birmingham University, Birmingham ...

A μ SR determination of the penetration depth in ...

Determination of 11 Phthalate Esters in
Beverages by Magnetic Solid-Phase
Extraction Combined with High-
Performance Liquid Chromatography. Yin
S(1), Yang Y(1), Yang D(1), Li Y(1), Jiang
Y(2), Wu L(1), Sun C(1). Author
information: (1)Sichuan University, West
China School of Public Health, Chengdu
610041, China.

Determination of 11 Phthalate Esters in Beverages by ...

magnetic field in the gap between two
bulk HTS pellets. The field penetration
measurements has been carried out on
HTS pellets at 77 K by applying
increasing magnetic fields with a quasi

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constant sweep rate for axial direction of the applied magnetic field. Two values of complete penetration magnetic

Determination of J_c and n-value of HTS Pellets by ...

Transcranial magnetic stimulation (TMS), also known as repetitive transcranial magnetic stimulation (rTMS), is a noninvasive form of brain stimulation in which a changing magnetic field is used to cause electric current at a specific area of the brain through electromagnetic induction. An electric pulse generator, or stimulator, is connected to a magnetic coil, which in turn is connected to the ...

Transcranial magnetic stimulation - Wikipedia

Measurement of depth of invasion (DOI) on magnetic resonance images (MRI) (A) and on histopathological specimens (B). Measurement of DOI is based on the adjacent normal oral mucosal junction to the deepest infiltration point of tumor.

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Depth of invasion determined by magnetic resonance imaging ...

These two kinds of the resonator allow us to determine the temperature and frequency dependences of the magnetic penetration depth $\lambda(T, f)$ and the surface loss. Several salient features of the above findings related to the nature of low-lying excitations for high- T_c superconductivity as a function of oxygen content will be elucidated.

Physical properties of YBa₂Cu₃O_{7- δ} thin films using ...

including RF coil geometry and penetration, non-uniformity of the transmitted RF field (B_1 non-uniformity), inhomogeneity of the static magnetic field (B_0 non-uniformity), inadequacies in gradient pulse calibration or eddy current corrections, and spatial positioning of the phantom.

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