

Determination Of The Magnetic Penetration Depth In A

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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. The obtained field profile allows us to quantitatively estimate the Pearl length Λ without the need of pre-calibrating the Hall sensor.

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mine the penetration depth k which has not been explored so far and does not require pre-calibration procedures of the magnetic sensor. Its precision depends on the good knowledge of the sample geometry. The approach consists of map-ping

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the magnetic field profile at the border of the sample produced by Meissner screening currents. In contrast to the

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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. 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.

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SHPM is used to map the magnetic field over a Pb film Meissner state at the border: theoretical model to determine the magnetic penetration depth Λ $\lambda_L=48\text{nm}$ (Pb) the scanning height $z_0 \approx 1\mu\text{m}$ No significant corrections due to the Hall probe size Isolated vortex: the magnetic monopole model allows to extract the

Why determine the magnetic penetration

Polarized neutron reflectometry was used for the direct measurement of the magnetic-field penetration depth in a high-temperature (HTc) superconductin...

Determination of the magnetic field penetration depth in ...

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 the magnetic penetration depth in a superconducting Pb film . By J Brisbois, B Raes, Joris Van de Vondel, Victor Moshchalkov and A. V Silhanek. Get PDF (1 MB) Abstract. By means of scanning Hall probe microscopy technique, we accurately map the magnetic field pattern produced by Meissner screening currents in a thin ...

Determination of the magnetic penetration depth in a ...

Determination of the magnetic penetration depth in a superconducting Pb film By J. Brisbois, B. Raes, J. Van de Vondel, V. V. Moshchalkov and A. V. Silhanek Cite

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Magnetic Field- 1993 The temperature dependence of the penetration depth of Nb films was determined from resistive transitions of Nb/AlOx/Nb Josephson junctions in a constant magnetic field applied parallel to the junction planes. Distinct resistance peaks were observed as temperature decreases and those peaks were found to appear when the total flux

Determination Of The Magnetic Penetration Depth In A ...

Title : Determination of the magnetic penetration depth in a superconducting Pb film: Language : English: Author, co-author : Brisbois, Jérémy [Université de Liège - ULiège > Département de physique > Physique de la matière condensée >]: Publication date :

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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) superconducting film. Two scattering geometries were used. The deduced neutron scattering length density profile gave an exact picture of the composition of the film.

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OSTI.GOV Journal Article: Determination of the magnetic penetration depth in a superconducting Pb film Title: Determination of the magnetic penetration depth in a superconducting Pb film Full Record

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Associated with the Meissner effect is the well-known surface flux penetration; a penetration depth of $\sim 1,500 \text{ \AA}$ has been derived³ for $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$, and values of $\sim 2,000 \text{ \AA}$ were measured by ...

Determination of the magnetic penetration depth of the ...

Determination of the magnetic penetration depth of the high T_c superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ by polarised neutron reflection By Felici R, Penfold J, Ward R C, Olsi E and Maticcotta C

Determination of the magnetic penetration depth of the ...

The magnetic field penetration depth in a single crystalline superconducting film $\text{YBa}_2\text{Cu}_3\text{O}_7$ (thickness 2000 A, deposited onto 1.0.0 plane of SrTiO_3 single crystal) along c axis at T equals 5.2 K temperature, according to the thermal polarized neutron reflection experiments, is equal to $\Lambda_c = 970(\text{sub } -250)(\text{exp } +600) \text{ A}$.

Determination of magnetic field penetration depth in ...

Here, the response function of a Hall sensor is determined in the diffusive regime, which allows this device to be used as a magnetosensor for the determination of inhomogeneous magnetic field ...

(PDF) Determination of the magnetic penetration depth in a ...

Determination of the magnetic penetration depth in a superconducting Pb film J. Brisbois,¹ a) B. Raes,^{2,3} J. Van de Vondel,² V. V. Moshchalkov,² and A. V. Silhanek¹ 1)D epartement de Physique ...

Determination of the magnetic penetration depth in a ...

The field penetration measurements have been carried out on HTS pellets at 77 K by applying increasing magnetic fields with a quasi-constant sweep rate for the axial direction of the applied magnetic field. Two values of complete penetration magnetic field B_P have been measured at two different rise rates V_b .

Determination of - and --Value of HTS Pellets by ...

The magnetic penetration depth, Λ , is one of the characteristic quantities of a superconductor because it is strictly related to the density of superconducting electrons. The absolute determination of the magnetic penetration depth is possible by using polarized neutron reflection.

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Magnetic penetration depth determination of the high Tc ...

Determination of magnetic penetration depth from saddle-point field analysis in $Tl_2Ba_2Ca_2Cu_3O_{10+\delta}$.

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