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1. Nikolo, M. and Goldfarb, R.B., "Flux creep and activation energies at the grain boundaries of Y-Ba-Cu-O superconductors," Phys. Rev. B 39, 6615 (1989). 2. Nikolo M. and Goldfarb, R.B., "Flux creep ...

Martin Nikolo, Ph.D.

Under certain conditions, the superconductor can even lock into position over a magnet, due to flux pinning, wherein flux "tubes" from the magnet's field penetrate a superconductor and are ...

A Mobius Strip Track For Superconductor Levitation

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WEEKS 7 & 8 The mixed state and type-II superconductors, concept of the vortex, critical fields; critical-state models of Bean and Kim et al, flux-flow resistivity; critical currents; flux pinning, ...

ELEC_ENG 389: Superconductivity and its Applications

See allHide authors and affiliations Superconductors with periodically ordered mesoporous ... including their critical field, critical current, and flux pinning behavior (1-6). Despite a growing ...

Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors

the Slide relies on something called flux pinning, as well as a principle called the Meissner effect. And this all works because of something called superconduction. A superconductor is a material ...

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How Does The Lexus Hoverboard Actually Work? A Scientist Explains

Enhancements of T_c to near and above 40 K were found. Ex situ transport and Meissner effect measurements on 1-UC FeSe films found onset of superconductivity just above 40 K and zero resistance around ...

Direct imaging of electron transfer and its influence on superconducting pairing at FeSe/SrTiO

This is the generic class for subject matter involving (a) superconductor technology above 30 K and (b) Art collections involving superconductor technology. Apparatus, devices, materials, and ...

CLASS 505, SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS

These purely two-dimensional MATBG Josephson junctions exhibit non-local

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electrodynamics in a magnetic field, in agreement with the Pearl theory for ultrathin superconductors. Utilizing the

...

Highly tunable junctions and non-local Josephson effect in magic-angle graphene tunnelling devices

This phenomenon, called nematicity, has been observed in many unconventional superconductors. Cao et al. found that magic-angle twisted bilayer graphene, in which superconductivity was recently ...

Nematicity and competing orders in superconducting magic-angle graphene

where (ϕ_0) is the flux quantum and $(H_{\mathrm{C} \dots}$ chiral molecules adsorbed on a metal proximity coupled to a superconductor. Phys. Rev. B 98, 214513 (2018). Leksin, P.

Spin-singlet to triplet Cooper pair converter interface

However, despite numerous research

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efforts to use mechanisms such as nonlinearity in the a.c. Josephson effect, nonequilibrium superconductivity, photo-induced carriers, and bolometric effect (10–19), ...

Josephson junction infrared single-photon detector

162 Magnetic field sensing system or device (e.g., SQUID, etc.) 163 Significant cryogenic refrigeration system having superconductor component as part of the system or having superconductor device or ...

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