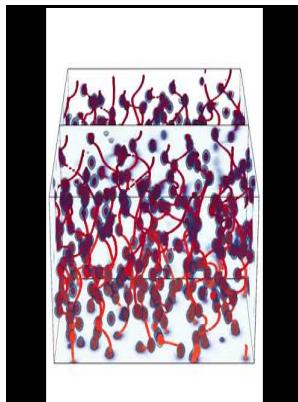


# Flux pinning in superconductors

**Springer - flux motion and flux pinning in superconductors by Steven C. Sanders**



Description: -

- Superconductors.

Flux pinning Flux pinning in superconductors

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Notes: Includes bibliographical references and index.

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## Superconductivity

All known superconductors are solids. This is analogous to rolling a bowling ball up the middle of a bed.

### Flux motion and pinning in superconductors through flux flow..

In a normal conductor, electrical current only flows when there's a voltage differential and contiguous electrical connection. The pressure introduces more point defects in sample and it is responsible for enhancement  $J_c$ . Figure shows the rapid enhancement of  $T_c$  in the low pressure region and moderate increase in high pressure region as we observed from both  $\rho$  T and M T for Cr 0.

## Indigo

Here, innovative schools and departments within our humanities, natural sciences and social sciences divisions drive transformative efforts and amplify diverse voices in our community. Summation theories to derive the critical current density are discussed in detail.

### Flux Pinning in Superconductors [4]

Since the pinning force is small, fluxoids can be broken loose from their pinning centers, resulting in a net creep of the flux through a conductor as a function of time. For example, a room temperature of 20C is 293.

### Peak effect of electric field and flux pinning properties in high $T_{\text{c}}$ superconductors; Koon chodendotai ni okeru denkai piku koka to jisoku pinningu tokusei (Journal Article)

Or click to see a short list of some of these compounds alongside their  $T_c$ 's.

## Superconductivity

The DAC is used to accomplish this in the laboratory. YBCO: An acronym for a well-known ceramic superconductor composed of Yttrium, Barium, Copper and Oxygen. This contrasts with paramagnetism, which is temporary, much weaker and results from unpaired electrons.



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