

### **squids the josephson effects pdf**

Brian David Josephson FRS (born 4 January 1940) is a Welsh theoretical physicist and professor emeritus of physics at the University of Cambridge. Best known for his pioneering work on superconductivity and quantum tunnelling, he was awarded the Nobel Prize in Physics in 1973 for his prediction of the Josephson effect, made in 1962 when he was a 22-year-old PhD student at Cambridge University.

### **Brian Josephson - Wikipedia**

Der Josephson-Effekt ist ein physikalischer Effekt, der den Tunnelstrom zwischen zwei Supraleitern beschreibt. Er wurde von Brian D. Josephson 1962 theoretisch vorhergesagt und später in zahlreichen Experimenten verifiziert, zuerst 1962 von John Rowell an den Bell Laboratories (teilweise mit Philip Warren Anderson). Josephson erhielt 1973 den Nobelpreis für Physik.

### **Josephson-Effekt - Wikipedia**

Superconductivity is a phenomenon of exactly zero electrical resistance and expulsion of magnetic flux fields occurring in certain materials, called superconductors, when cooled below a characteristic critical temperature. It was discovered by Dutch physicist Heike Kamerlingh Onnes on April 8, 1911, in Leiden. Like ferromagnetism and atomic spectral lines, superconductivity is a quantum ...

### **Superconductivity - Wikipedia**

In the past 20 years, impressive progress has been made both experimentally and theoretically in superconducting quantum circuits, which provide a platform for manipulating microwaves.

### **Microwave photonics with superconducting quantum circuits**

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### **Superconductor Science and Technology - IOPscience**

Non-destructive techniques are used widely in the metal industry in order to control the quality of materials. Eddy current testing is one of the most extensively used non-destructive techniques for inspecting electrically conductive materials at very high speeds that does not require any contact between the test piece and the sensor. This paper includes an overview of the fundamentals and ...

### **Non-Destructive Techniques Based on Eddy Current Testing**

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### **Publication - Quantum Condensed Matter Group - [arXiv](#)**

Le phénomène est découvert en 1911 par le physicien néerlandais Heike Kamerlingh Onnes et son équipe composée de Gilles Holst, Cornelis Dorsman, et Gerit Flim. Kamerlingh Onnes avait réussi à liquéfier pour la première fois de l'hélium en 1908, ce qui lui avait permis de mener des mesures physiques jusqu'à des températures de 1,5 K (-271,6 °C).

### **Supraconductivité - Wikipedia**

Two years ago almost to the day, I announced my retirement as Chief D-Wave Skeptic.. But“as many readers predicted at the time“recent events (and the contents of my inbox!) have given me no choice except to resume my post.

**D-Wave: Truth finally starts to emerge - Scott Aaronson**

2002“ Arranging optical fibers for the spatial resolution improvement of topographical images ARL:Tsuyoshi Yamamoto, Atsushi Maki, Takuma Kadoya, Yukari Tanikawa, Yukio Yamada, Eiji Okada and Hideaki Koizumi

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