

Module V (Superconductivity & Photonics)

Superconducting phenomena, Meissner effect and perfect diamagnetism, Types of superconductors- Type I and Type II, BCS Theory (Qualitative), High temperature superconductors-Applications of super conductivity

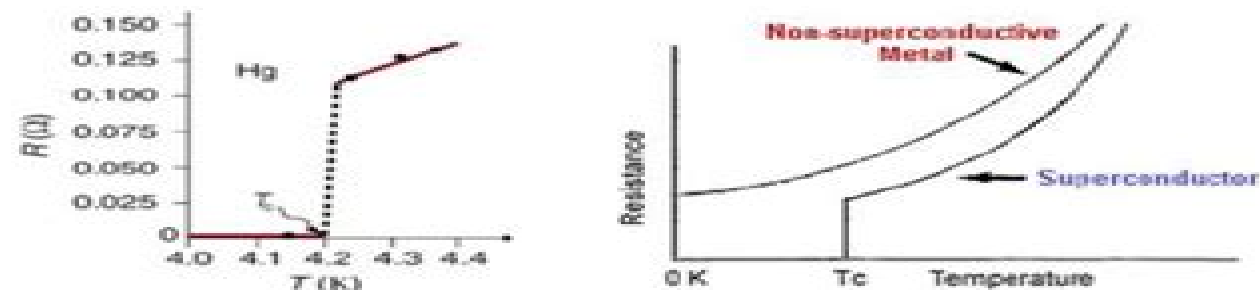
Introduction to photonics-Photonic devices-Light Emitting Diode, Photo detectors - Junction and PIN photodiodes, Solar cells-I-V Characteristics, Optic fibre-Principle of propagation of light, Types of fibres-Step index and Graded index fibres, Numerical aperture –Derivation, Fibre optic communication system (block diagram), Industrial, Medical and Technological applications of optical fibre, Fibre optic sensors-Intensity Modulated and Phase modulated sensors.

Superconductivity

Superconductivity was discovered in 1911 by the Dutch physicist Heike Kamerlingh Onnes; He found that the electrical resistivity of mercury disappears suddenly when it is cooled below 4.2 K.

The phenomenon of complete disappearance of electrical resistance in certain materials when they are cooled below a characteristic temperature, called the transition temperature, T_c is called superconductivity.

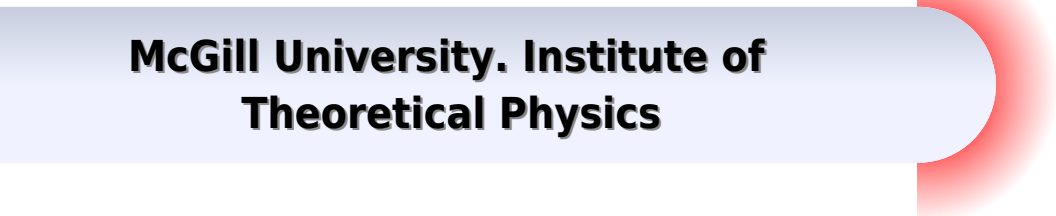
The superconducting transition is reversible so that a superconductor, if heated, will change to a normal substance at its transition temperature. The substance below and above transition temperature was shown to be in entirely different physical states with widely different properties.



(a) Plot of the resistance of Mercury vs. temperature, showing sudden decrease of the critical temperature, at 4.2 K. (b) Combined resistance vs temperature graphs of a non superconducting material and a superconducting material.

Superconductivity Proc Of The P N Levede

**McGill University. Institute of
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The Enigmatic Realm of **Superconductivity Proc Of The P N Levede**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Superconductivity Proc Of The P N Levede** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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