



## Discovering Superconductivity: An Investigative Approach (Paperback)

By -

John Wiley Sons Inc, United States, 2012. Paperback. Condition: New. New. Language: English . Brand New Book. Superconductivity is a quantum phenomenon that manifests itself in materials showing zero electrical resistance below a characteristic temperature resulting in the potential for an electric current to run continually through such a material without the need for a power source. Such materials are used extensively in medical and power applications, e.g. MRI and NMR machines. Discovering Superconductivity uses a series of practical and investigative activities, which can be used as tutor demonstrations or as student lab exercises. This highly illustrated text features the following sections: \*Introduction - including a brief history of superconductivity \*Superconductivity - an explanation of the phenomenon and its effects \*Superconducting materials including High Low temperature superconductors \*Applications how superconductivity is used in medical imaging, at CERN and in the Maglev trains This text will serve as an excellent introduction for students, with or without a physics background, to superconductivity. With a strong practical, experimental emphasis, it provides readers with an overview of the topic preparing them for more advanced texts used in advanced undergraduate and post-graduate courses. PowerPoint files of the figures presented within this text are available at:...



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