

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: booksupport.wiley.com A word from the author: The intention of this text is to introduce the reader to the study of superconductivity via a minds-on approach The minds-on approach takes this a stage further by requiring the learner to engage with the process to a greater extent.

Doing Ethnographic Research: Fieldwork Settings, Towards a Politics of Compassion: Socio-Political Dimensions of Christian Responses to Suffering, Inner Sanctum (The Stonebridge Mysteries Book 2), Ornamental horticulture as a vocation, More Monster Jokes (More Jokes!), The Magazine ANTIQUES November 2002 - American Art, Plumbing Estimating Methods: Includes : Standard Plumbing & Fire Protection Systems, Special Systems Such As Medical Gas & Glass Piping, Communication and the Mentally Ill Patient: Developmental and Linguistic Approaches to Schizophrenia, The Healing Power of Psalms: Renewal, Hope and Acceptance from the Worlds Most Beloved Ancient Verses, Chronic Pain and HIV: A Practical Approach,

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