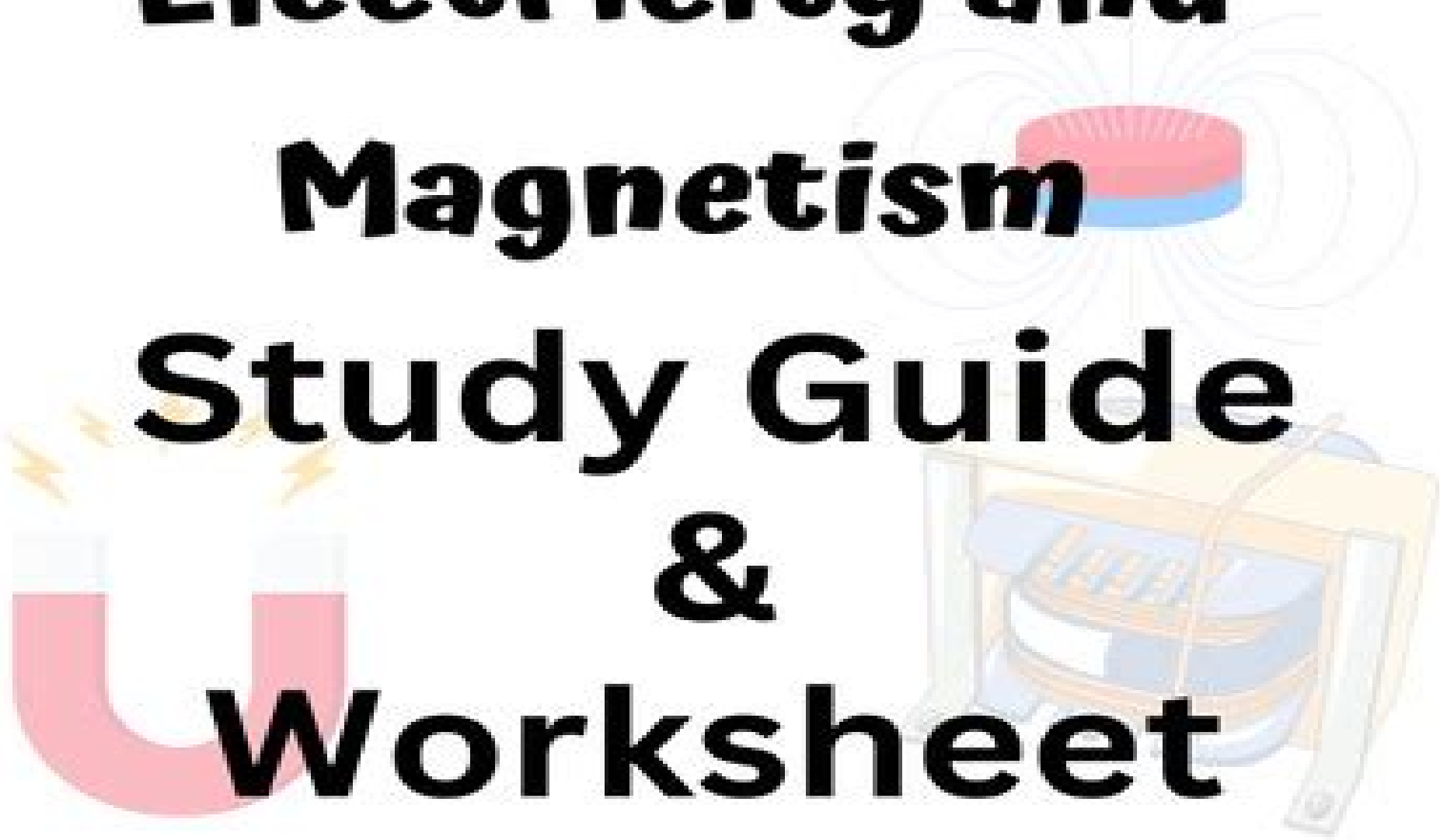


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of Second Generation High Temperature Superconductors: Electromagnetic Characteristics and AC Loss Analysis Boyang Shen, 2020-08-31 This thesis introduces a systematic study on Second Generation 2G High Temperature Superconductors HTS covering a novel design of an advanced medical imaging device using HTS and an in depth investigation on the losses of HTS The text covers the design and simulation of a superconducting Lorentz Force Electrical Impedance Tomography This is potentially a significant medical device that is more efficient and compact than an MRI and is capable of detecting early cancer as well as other pathologies such stroke and internal haemorrhages It also presents the information regarding the fundamental physics of superconductivity concentrating on the AC losses in superconducting coils and tapes Overall the thesis signifies an important contribution to the investigation of High Temperature Superconductors This thesis will be beneficial to the development of advanced superconducting applications in healthcare as well as more broadly in electrical and energy systems

Modeling and Application of Electromagnetic and Thermal Field in Electrical Engineering Zhiguang Cheng, Norio Takahashi, Behzad Forghani, 2019-12-03 Co authored by an international research group with a long standing cooperation this book focuses on engineering oriented electromagnetic and thermal field modeling and application It presents important contributions including advanced and efficient finite element analysis used in the solution of electromagnetic and thermal field problems for large and multi scale engineering applications involving application script development magnetic measurement of both magnetic materials and components under various even extreme conditions based on well established standard and non standard experimental systems and multi level validation based on both industrial test systems and extended TEAM P21 benchmarking platform Although these are challenging topics they are useful for readers from both academia and industry

Cosmic Plasmas and Electromagnetic Phenomena Athina Meli, Yosuke Mizuno, Jose L. Gómez, 2019-10-25 During the past few decades plasma science has witnessed a great growth in laboratory studies in simulations and in space Plasma is the most common phase of ordinary matter in the universe It is a state in which ionized matter even as low as 1% becomes highly electrically conductive As such long range electric and magnetic fields dominate its behavior Cosmic plasmas are mostly associated with stars supernovae pulsars and neutron stars quasars and active galaxies at the vicinities of black holes i e their jets and accretion disks Cosmic plasma phenomena can be studied with different methods such as laboratory experiments astrophysical observations and theoretical computational approaches i e MHD particle in cell simulations etc They exhibit a multitude of complex magnetohydrodynamic behaviors acceleration radiation turbulence and various instability phenomena This Special Issue addresses the growing need of the plasma science principles in astrophysics and presents our current understanding of the physics of astrophysical plasmas their electromagnetic behaviors and properties e g shocks waves turbulence instabilities collimation acceleration and radiation both microscopically and macroscopically This Special Issue provides a series of state of the art reviews from international experts in the field of cosmic plasmas and electromagnetic phenomena using theoretical approaches astrophysical

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Bio-electromagnetism Anirban Bandyopadhyay, Kanad Ray, 2024-03-07 This book discusses various aspects of bioinspired technologies but with an additional emphasis on the medical science starting from the popular article on neurobiology to pure biophysics that ends with the superintelligence of biological systems that could be reverse engineered It covers eight different aspects of natural intelligence starting from the fundamental electromagnetic properties of a protein to the vibrations and the resonance of the entire biomaterial system It also covers a wide spectrum of hierarchical communication among different biological systems for intelligence and then medical science is applied

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