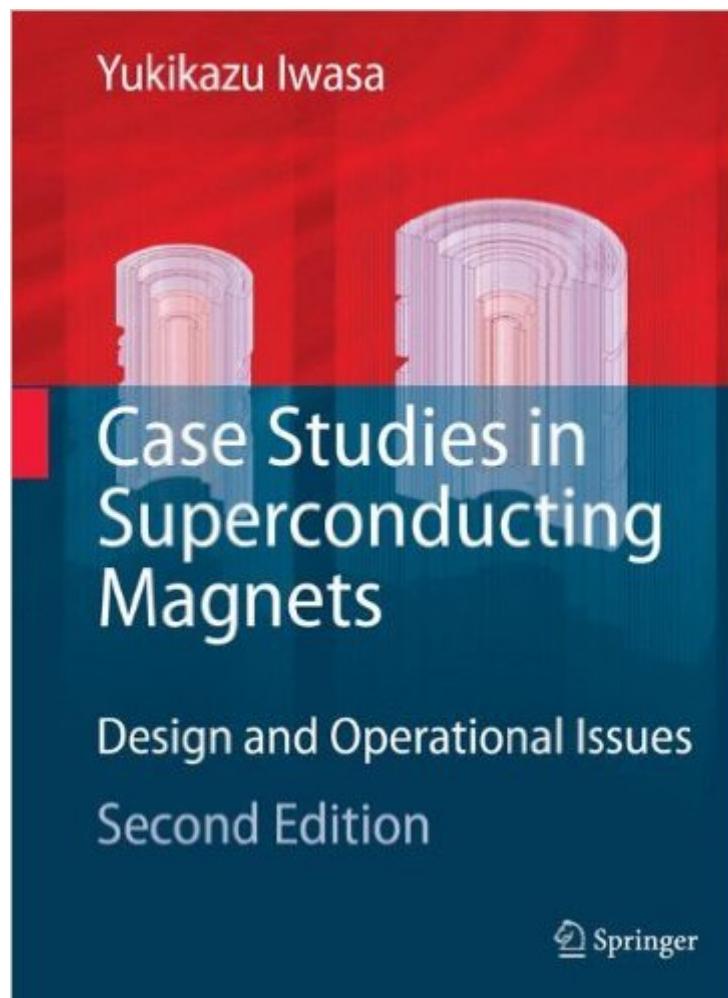


The book was found

Case Studies In Superconducting Magnets: Design And Operational Issues



Synopsis

The 2nd edition emphasizes two areas not emphasized in the 1st edition: 1) high-temperature superconductor (HTS) magnets; 2) NMR (nuclear magnetic resonance) and MRI (magnetic resonance imaging) magnets. Despite nearly 40 years of R and D on superconducting magnet technology, most areas, notably fusion and electric power applications, are still in the R and D stage. One exception is in the area of NMR and MRI. NMR magnets are very popular among chemists, biologists, genome scientists, and most of all, by drug manufacturers for drug discovery and development. MRI and NMR magnets have become the most successful application of superconducting magnet technology and this trend should continue. The 2nd edition will have new materials never treated formally in any other book of this kind. As with the 1st, most subjects will be presented through problem format to educate and train the designer.

Book Information

Hardcover: 682 pages

Publisher: Springer; 2nd ed. 2009 edition (April 1, 2009)

Language: English

ISBN-10: 0387097996

ISBN-13: 978-0387097992

Product Dimensions: 7.7 x 1.5 x 10.3 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 starsÂ See all reviewsÂ (3 customer reviews)

Best Sellers Rank: #2,298,492 in Books (See Top 100 in Books) #96 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Superconductivity #206 in Books > Science & Math > Chemistry > Crystallography #236 in Books > Science & Math > Physics > Electromagnetism > Magnetism

Customer Reviews

A rigorous yet readable magnum opus; a comprehensive compilation of magnet-design facts, insights, methods and case studies; a tome of 682 pages, 210 figures, 87 tables and 885 references, meticulously edited and proofread to minimize the typos that can detract from the utility of a textbook or handbook. Chapters include Electromagnetic Field Theory, Fields & Forces, Cryogenics, Magnetization, Stability, AC Losses and Protection. Among the topics likely to be of especial interest and value to many readers are magnetic shielding, induction heating, magnetic forces, stresses and strains in a bonded solenoid, field expansion in Cartesian coordinates, and

field-error coefficients. Of great value to almost everyone are the Appendix figures and tables of the physical properties of cryogens and insulators and the physical and electrical properties of normal metals and superconductors.

If you are about to learn the basics of superconducting magnets, you must have this book. The author is one of the best engineers in this area.

An excellent overview of superconducting magnet design with a lot of current information on HTS.

[Download to continue reading...](#)

Case Studies in Superconducting Magnets: Design and Operational Issues Case Studies In Nursing Ethics (Fry, Case Studies in Nursing Ethics) Nursing Case Studies: 15 Med Surg Case Studies with Rationales Rare-Earth Iron Permanent Magnets (Monographs on the Physics and Chemistry of Materials) Medical Magnets: Saving Lives and Millions of Dollars in Health Care: Why your Insurance Plan Should Pay for Medical Biomagnetism (Alternative Solutions Book 2) More Than Magnets: Exploring the Wonders of Science in Preschool and Kindergarten Love Will Find You: 9 Magnets to Bring You and Your Soulmate Together Design With Operational Amplifiers And Analog Integrated Circuits (McGraw-Hill Series in Electrical and Computer Engineering) Design with Operational Amplifiers and Analog Integrated Circuits Bravo for the Marshallese: Regaining Control in a Post-Nuclear, Post-Colonial World (Case Studies on Contemporary Social Issues) The Turn of the Screw: A Case Study in Contemporary Criticism (Case Studies in Contemporary Criticism) Patent Case Management Judicial Guide 3rd edition (2016) Volume II: Trial Case Management, Design Patents, Plant Patents, ANDA/Biosimilars, Federal Claims, and Patent Primer (Volume 2) Legal and Ethical Issues in Nursing (6th Edition) (Legal Issues in Nursing (Guido)) Standard Catalog of World Paper Money - Modern Issues (DVD) (Standard Catalog of World Paper Money: Modern Issues, 1961-Present) Standard Catalog of World Paper Money General Issues - 1368-1960 (Standard Catlog of World Paper Money 14th Edition: General Issues) Standard Catalog Of World Paper Money General Issues 1368-1960 (Standard Catlog of World Paper Money 13th edition: General Issues) Standard Catalog of World Paper Money: General Issues to 1960 (Standard Catalog of World Paper Money. Vol 2 : General Issues, 8th ed) Standard Catalog of World Paper Money: Modern Issues 1961 - Present (Standard Catalog of World Paper Money: Vol.3: Modern Issues) FRANKENSTEIN COMICS, VOL. 3: ISSUES #11-12-13-14-15-16-17: Seven Complete Issues Of The Classic 1945-1954 Comic Book Series The SPIRIT Comic Books, Vol. 2: Issues #6-7-8-9-10: Five Complete Issues of the Classic 1940s Comic Books by Will Eisner

[Dmca](#)