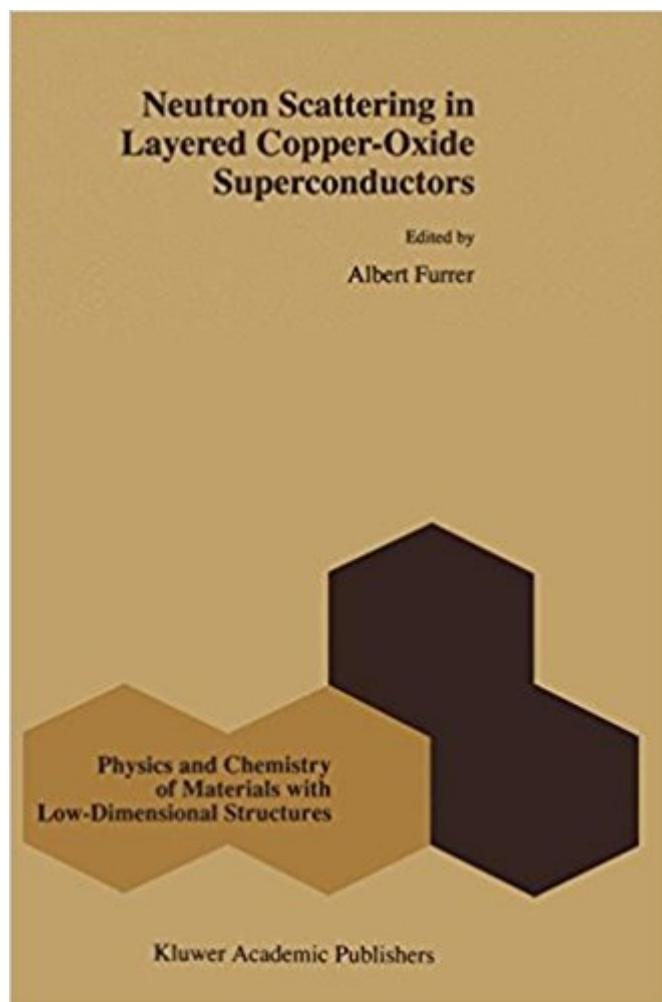


The book was found

Neutron Scattering In Layered Copper-Oxide Superconductors (Physics And Chemistry Of Materials With Low-Dimensional Structures)



Synopsis

The phenomenon of superconductivity - after its discovery in metals such as mercury, lead, zinc, etc. by Kamerlingh-Onnes in 1911 - has attracted many scientists. Superconductivity was described in a very satisfactory manner by the model proposed by Bardeen, Cooper and Schrieffer, and by the extensions proposed by Abrikosov, Gorkov and Eliashberg. Relations were established between superconductivity and the fundamental properties of solids, resulting in a possible upper limit of the critical temperature at about 23 K. The breakthrough that revolutionized the field was made in 1986 by Bednorz and Muller with the discovery of high-temperature superconductivity in layered copper-oxide perovskites. Today the record in transition temperature is 133 K for a Hg based cuprate system. The last decade has not only seen a revolution in the size of the critical temperature, but also in the myriads of research groups that entered the field. In addition, high-temperature superconductivity became a real interdisciplinary topic and brought together physicists, chemists and materials scientists who started to investigate the new compounds with almost all the available experimental techniques and theoretical methods. As a consequence we have witnessed an avalanche of publications which has never occurred in any field of science so far and which makes it difficult for the individual to be thoroughly informed about the relevant results and trends. Neutron scattering has outstanding properties in the elucidation of the basic properties of high-temperature superconductors.

Book Information

Series: Physics and Chemistry of Materials with Low-Dimensional Structures (Book 20)

Hardcover: 406 pages

Publisher: Springer; 1998 edition (September 30, 1998)

Language: English

ISBN-10: 0792352262

ISBN-13: 978-0792352266

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,439,114 in Books (See Top 100 in Books) #103 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Superconductivity #198 in Books > Science & Math > Chemistry > Crystallography #358 in Books > Engineering & Transportation > Engineering > Reference > Measurements

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

Neutron Scattering in Layered Copper-Oxide Superconductors (Physics and Chemistry of Materials with Low-Dimensional Structures) Polymers and Neutron Scattering (Oxford Series on Neutron Scattering in Condensed Matter) Low Carb: 365 Days of Low Carb Recipes (Low Carb, Low Carb Cookbook, Low Carb Diet, Low Carb Recipes, Low Carb Slow Cooker, Low Carb Slow Cooker Recipes, Low Carb Living, Low Carb Diet For Beginners) Low Carb Diet: Introduction To Low Carb Diet And Recipes Of Low Carb Soups And Casseroles: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Low Carb Cookbook: Delicious Snack Recipes for Weight Loss. (low carbohydrate foods, low carb cooking, low carb diet, low carb recipes, low carb, low carb ... dinner recipes, low carb diets Book 1) Superconductors. Superconductivity : Easy course for understanding superconductors (What is a superconductor) Low Carb Candy Bars: 25 Low Carb Recipes To Satisfy Your Sweet Tooth: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Structural Phase Transitions in Layered Transition Metal Compounds (Physics and Chemistry of Materials with A) Elementary Scattering Theory: For X-ray and Neutron Users Elements of Slow-Neutron Scattering: Basics, Techniques, and Applications Methods of X-ray and Neutron Scattering in Polymer Science (Topics in Polymer Science) Low Carb Cookbook: 500 BEST LOW CARB RECIPES (low carb diet for beginners, lose weight, Atkins diet, low carb foods, low carb diet weight loss, low carb food list) Keto Bread Cookbook: Real Low Carb Recipes: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) The Ketogenic Diet Cookbook: Lose 15 Lbs In Two-Weeks With 66 Perfect Low Carb Keto Recipes: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Low Carb: The Ultimate Beginnerâ™s Low Carb Guide to Lose Weight Quick without Starving With over 20 Easy Recipes To Follow. (Low Carb, Low Carb Cookbook, ... Diet, Low Carb Recipies, Low Carb Cookbook) Dynamic Light Scattering: The Method and Some Applications (Monographs on the Physics and Chemistry of Materials) Layered Colored Pencil Jewelry: A Step-by-Step Exploration of Colored Pencil on Copper Conductors, Semiconductors, Superconductors: An Introduction to Solid State Physics (Undergraduate Lecture Notes in Physics) Low Carb: Low Calorie Cookbook: 200 High Protein Recipes for Weight Loss, Muscle Building, Healthy Eating and Increased Energy Levels (Low Carb High Protein ... Low Carb Cookbook, Low Carb Diet Book 1) LOW CARB DIET: KETOGENIC DIET: 1000 BEST LOW CARB AND KETOGENIC DIET RECIPES (BOX SET): low carb cookbook, ketogenic diet for beginners, low carb diet for beginners, low carbohydrate diet, ketogenic

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)