



Superconductivity

By Charles P. Poole Jr., Horacio A. Farach, Richard J. Creswick

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Superconductivity is an encyclopedic treatment of all aspects of the subject, from classic materials to fullerenes. Emphasis is on balanced coverage, with a comprehensive reference list and significant graphics from all areas of the published literature. Widely used theoretical approaches are explained in detail. Topics of special interest include high temperature superconductors, spectroscopy, critical states, transport properties, and tunneling.

Key Features

- * Extensive and detailed tables of properties
- * Substantial art program
- * In-depth treatment of bucky balls (fullerenes)
- * Excellent chapter on spectroscopy
- * Provides a comprehensive discussion of fullerene superconductivity
- * Emphasizes high-temperature superconductivity
- * Includes numerous tables with extensive up-to-date data on various superconductors

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Superconductivity By Charles P. Poole Jr., Horacio A. Farach, Richard J. Creswick Bibliography

- Sales Rank: #5018607 in Books
- Published on: 1996-04-03
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 1.19" h x 6.80" w x 9.91" l,
- Binding: Paperback
- 620 pages

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Editorial Review

Review

Poole, Farach, and Creswick (PFC) have written a very complete book on superconductivity; they cover a broad spectrum of the properties of conventional metallic and intermetallic superconductors, cuprate superconductors, and fullerenes.

--Kara Beauchamp in AMERICAN JOURNAL OF PHYSICS

From the Back Cover

At last, a comprehensive reference on all aspects of superconductivity, from classic materials to fullerenes. The emphasis is on balanced coverage, with a detailed reference list of the published literature. Of special interest are the coverage of high-temperature superconductors, spectroscopy, critical states, transport properties, and tunneling. This exhaustive introduction to superconductors will be of interest to physicists, chemists, materials scientists, and engineers.

About the Author

Dr. Farach has received international, national, and university awards. He is a member of the Academy of Science of Argentina and a Fellow of the American Society.

My research is in the area of theoretical condensed matter physics, especially the foundations of statistical physics. I have published extensively in the area of critical phenomena and phase transitions, including the text "Introduction to Renormalization Group Methods in Physics" with my co-authors Horacio Farach and Charles Poole. My most recent interests focus on numerical simulation of the mixed state in type-I superconductors, the analytical properties of the partition function, and the origins irreversibility.

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Scot Vines:

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