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During the past decade, the mathematics of superconductivity has been the subject of intense activity. This book examines in detail the nonlinear Ginzburg-Landau functional, the model most commonly used in the study of superconductivity. Specifically covered are cases in the presence of a strong magnetic field and with a sufficiently large Ginzburg-Landau parameter κ .

Key topics and features of the work:

- * Provides a concrete introduction to techniques in spectral theory and partial differential equations
- * Offers a complete analysis of the two-dimensional Ginzburg-Landau functional with large κ in the presence of a magnetic field
- * Treats the three-dimensional case thoroughly
- * Includes open problems

Spectral Methods in Surface Superconductivity is intended for students and researchers with a graduate-level understanding of functional analysis, spectral theory, and the analysis of partial differential equations. The book also includes an overview of all nonstandard material as well as important semi-classical techniques in spectral theory that are involved in the nonlinear study of superconductivity.