



# Superfluids, Vol. 1: Macroscopic Theory of Superconductivity

*Fritz London*

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## **Superfluids, Vol. 1: Macroscopic Theory of Superconductivity** Fritz London

This volume contains a full discussion of the superconducting phenomenon that occurs at very low temperatures in various pure metals, such as mercury, tin and lead, and in a great many alloys. Prof. London treats his subject with an eye to its general applications. He builds up each section of the work from basic principles, and describes with great care and clarity the experiments and mathematical proofs that support his theory he covers such topics as: Properties of Superconductors and their thermodynamical correlation; the electrostatics of the pure superconducting state: The relation between current and field measurements of the penetration depth; non viscous flow versus superconductivity; the superpotential and gauge invariance; micro waves in superconductors' the magneto statics of the intermediate state' the reality of the domain structure' phase transition of thin superconducting films and many similar topics.

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