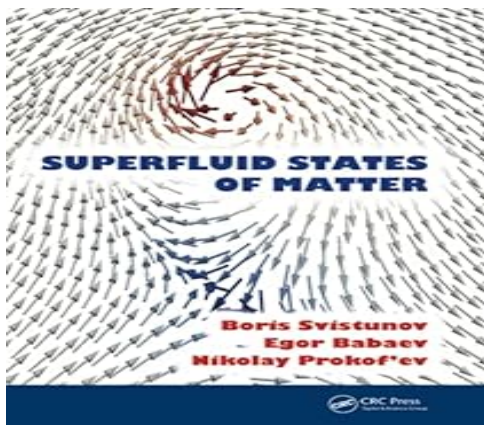


Book Superfluid States of matterhackers

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Describes new physics of superfluidity and superconductivity that arises in multicomponent systems
Presents the quantum field perspective on the conditions under which classical field description is relevant in bosonic and fermionic systems
Introduces the path integral formalism
Shows how Feynman path integrals can be efficiently simulated with the worm algorithm
Explains why nonsuperfluid (insulating) ground states of regular and disordered bosons occur under appropriate conditions
Explores superfluid solids (supersolids)
Discusses the rich dynamics of vortices and various aspects of superfluid turbulence at $T \rightarrow 0$
Provides account of BCS theory for the weakly interacting Fermi gas
Highlights and analyzes the most crucial developments that has led to the current understanding of superfluidity and superconductivity
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