

Efetov, Konstantin**Supersymmetry in disorder and chaos.** (English) [Zbl 0990.82501](#)

Cambridge: Cambridge University Press. xiv, 441 p. (1997).

Publisher's description: The development of the supersymmetry technique has led to significant advances in the study of disordered metals and semiconductors. The technique has proved to be of great use in the analysis of modern mesoscopic quantum devices, but is also finding applications in a broad range of other topics, such as localization and quantum chaos. This book provides the first comprehensive treatment of the ideas and uses of supersymmetry. It will be of great interest to graduate students and researchers in condensed matter physics and quantum chaos.

MSC:

- [82-02](#) Research exposition (monographs, survey articles) pertaining to statistical mechanics
- [81-02](#) Research exposition (monographs, survey articles) pertaining to quantum theory
- [81T60](#) Supersymmetric field theories in quantum mechanics
- [82B28](#) Renormalization group methods in equilibrium statistical mechanics
- [82B44](#) Disordered systems (random Ising models, random Schrödinger operators, etc.) in equilibrium statistical mechanics
- [82C70](#) Transport processes in time-dependent statistical mechanics
- [82D30](#) Statistical mechanical studies of random media, disordered materials (including liquid crystals and spin glasses)
- [82D37](#) Statistical mechanical studies of semiconductors
- [81Q50](#) Quantum chaos
- [37D45](#) Strange attractors, chaotic dynamics of systems with hyperbolic behavior

Cited in **125** Documents**Full Text:** [DOI](#)