

## Topological Insulators and Superconductors

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### Reviews

Good e book and valuable one. Better then never, though i am quite late in start reading this one. You are going to like how the article writer publish this publication. (Malcolm Block)

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#### TOPOLOGICAL INSULATORS AND SUPERCONDUCTORS



Princeton University Press. Hardback. Book Condition: new. BRAND NEW, Topological Insulators and Superconductors, B. Andrei Bernevig, Taylor L. Hughes, This graduate-level textbook is the first pedagogical synthesis of the field of topological insulators and superconductors, one of the most exciting areas of research in condensed matter physics. Presenting the latest developments, while providing all the calculations necessary for a self-contained and complete description of the discipline, it is ideal for graduate students and researchers preparing to work in this area, and it will be an essential reference both within and outside the classroom. The book begins with simple concepts such as Berry phases, Dirac fermions, Hall conductance and its link to topology, and the Hofstadter problem of lattice electrons in a magnetic field. It moves on to explain topological phases of matter such as Chern insulators, two- and three-dimensional topological superconductors, and topological responses/field theory and topological indices. The book also analyzes recent topics in condensed matter theory and concludes by surveying active subfields of research such as insulators with point-group symmetries and the stability of topological semimetals. Problems at the end of each chapter offer opportunities to test knowledge and engage with frontier research issues. Topological Insulators and Topological Superconductors will provide graduate students and researchers with the physical understanding and mathematical tools needed to embark on research in this rapidly evolving field.

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