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Sinopsis

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First textbook in the field of topological combinatorics
Covers topics such as fair division, graph coloring problems, evasiveness of graph properties, and embedding problems from discrete geometry
Contains many figures that aid in the understanding of concepts and proofs
Includes an extensive appendix that helps make the book completely self-contained
A Course in Topological Combinatorics is the first undergraduate textbook on the field of topological combinatorics, a subject that has become an active and innovative research area in mathematics over the last thirty years with growing applications in math, computer science, and other applied areas. Topological combinatorics is concerned with solutions to combinatorial problems by applying topological tools. In most cases these solutions are very elegant and the connection between combinatorics and topology often arises as an unexpected surprise.

The textbook covers topics such as fair division, graph coloring problems, evasiveness of graph properties, and embedding problems from discrete geometry. The text contains a large number of figures that support the understanding of concepts and proofs. In many cases several alternative proofs for the same result are given, and each chapter ends with a series of exercises. The extensive appendix makes the book completely self-contained.

The textbook is well suited for advanced undergraduate or beginning graduate mathematics students. Previous knowledge in topology or graph theory is helpful but not necessary. The text may be used as a basis for a one- or two-semester course as well as a supplementary text for a topology or combinatorics class.

Content Level » Upper undergraduate

Keywords » applications of algebraic topology - combinatorics - discrete geometry - fair division

Related subjects » Applications - Geometry & Topology