

<<组合代数拓扑>>

图书基本信息

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## <<组合代数拓扑>>

### 内容概要

该书是Springer的AlgorithmsandComputationinMathematics丛书系列第21卷，作者多年来从事离散数学，代数拓扑，理论计算机科学。

组合代数拓扑是代数拓扑和离散数学的交叉。

属于"反映学术前沿进展的优秀学术著作"这一类。

比较专门，本书的读者可以是几何，拓扑和代数方向的数学工作者和研究生。

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## 编辑推荐

Combinatorial algebraic topology is a fascinating and dynamic field at the crossroads of algebraic topology and discrete mathematics. This volume is the first comprehensive treatment of the subject in book form. The first part of the book constitutes a swift walk through the main tools of algebraic topology, including Stiefel-Whitney characteristic classes, which are needed for the later parts. Readers-graduate students and working mathematicians alike-will probably find particularly useful the second part, which contains an in-depth discussion of the major research techniques of combinatorial algebraic topology. Our presentation of standard topics is quite different from that of existing texts. In addition, several new themes, such as spectral sequences, are included. Although applications are sprinkled throughout the second part, they are principal focus of the third part, which is entirely devoted to developing the topological structure theory for graph homomorphisms. The main benefit for the reader will be the prospect of fairly quickly getting to the forefront of modern research in this active field.

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