<<图论教程>>

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内容概要

Graph theory has experienced a tremendous growth during the 20thcentury. One of the main reasons for this phenomenon is theapplicability of graph theory in other disciplines such as physics,chemistry, psychology, sociology, and theoretical computer science.This book aims to provide a solid background in the basic topics ofgraph theory. It covers Dirac's theorem on k-connected graphs,Harary-Nashwilliam's theorem on the hamiltonicity of line graphs,Toida-McKee's characterization of Eulerian graphs, the Tutte matrixof a graph, Foumier's proof of Kuratowski's theorem on planar graphs,the proof of the nonhamiltonicity of the Tutte graph on 46 verticesand a concrete application of triangulated graphs. The book does notpresuppose deep knowledge of any'branch of mathematics, butrequires only the basics of mathematics. It can be used in an advancedundergraduate course ora beginning graduate course in graph theory.

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书籍目录

章节摘录

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