

<<图论导引>>

图书基本信息

书名：<<图论导引>>

13位ISBN编号：9787111152156

10位ISBN编号：7111152158

出版时间：2004-10

出版时间：机械工业

作者：[美] Douglas B. West

页数：588

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<图论导引>>

### 内容概要

图论在计算科学、社会科学和自然科学等各个领域都有广泛应用。

本书是本科生或研究生一学期或两学期的图论课程教材。

全书力求保持按证明的难度和算法的复杂性循序渐进的风格，使学生能够深入理解书中的内容。

书中包括对证明技巧的讨论、1200多道习题、400多幅插图以及许多例题，而且对所有定理都给出了详细完整的证明。

虽然本书包括许多算法和应用，但是重点在于理解图论结构和分析图论问题的技巧。

## &lt;&lt;图论导引&gt;&gt;

## 书籍目录

Preface Chapter 1 Fundamental Concepts 1.1 What Is a Graph? The Definition Graphs as Models Matrices and Isomorphism Decomposition and Special Graphs Exercises 1.2 Paths, Cycles, and Trails Connection in Graphs Bipartite Graphs Exercises 1.3 Vertex Degrees and Counting Counting and Bijections Extremal Problems Graphic Sequences Exercises 1.4 Directed Graphs Definitions and Examples Vertex Degrees Eulerian Digraphs Orientations and Tournaments Exercises Chapter 2 Trees and Distance 2.1 Basic Properties Properties of Trees Distance in Trees and Graphs Disjoint Spanning Trees (optional) Exercises 2.2 Spanning Trees and Enumeration Enumeration of Trees Spanning Trees in Graphs Decomposition and Graceful Labelings Branchings and Eulerian Digraphs (optional) 2.3 Optimization and Trees Minimum Spanning Tree Shortest Paths Trees in Computer Science (optional) Exercises Chapter 3 Matchings and Factors 3.1 Matchings and Covers Maximum Matchings Hall's Matching Condition Min-Max Theorems Independent Sets and Covers Dominating Sets (optional) Exercises 3.2 Algorithms and Applications Maximum Bipartite Matching Weighted Bipartite Matching Stable Matchings (optional) Faster Bipartite Matching (optional) Exercises 3.3 Matchings in General Graphs Tutte's 1-factor Theorem  $f$ -factors of Graphs (optional) Edmonds' Blossom Algorithm (optional) Exercises..... Chapter 4 Connectivity and Paths Chapter 5 Coloring of Graphs Chapter 6 Planar Graphs Chapter 7 Edges and Cycles Chapter 8 Additional Topics (optional) Appendix A Mathematical Background Appendix B Optimization and Complexity Appendix C Hints for Selected Exercises Appendix D Glossary of Terms Appendix E Supplemental Reading Appendix F References Author Index Subject Index

#### 版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>