

## <<计算复杂性>>

### 图书基本信息

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### 内容概要

计算复杂性理论的研究是计算机科学最重要的研究领域之一，而Christos H. Papadimitriou是该领域最著名的专家之一。

本书是一本全面阐述计算复杂性理论及其近年来进展的教科书，主要包含算法图灵机、可计算性等有关计算复杂性理论的基本概念；布尔逻辑、一阶逻辑、逻辑中的不可判定性等复杂性理论的基础知识；P与NP、NP完全等各复杂性类的概念及其之间的关系等复杂性理论的核心内容；随机算法、近似算法、并行算法及其复杂性理论；以及NP之外如多项式空间等复杂性类的介绍。

本书内容丰富，体系严谨，证明简洁，叙述深入浅出，并配有大量的练习和文献引用。本书不但适合作为研究生或本科高年级学生的教材，也适合从事算法和计算复杂性研究的人员参考。

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## &lt;&lt;计算复杂性&gt;&gt;

## 书籍目录

PART I : ALGORITHMS1 Problems and Algorithms1.1 Graph reachability1.2 Maximum flow and matching1.3 The traveling salesman problem1.4 Notes , references , and problems2 Turing machines2.1 Turing machine basics2.2 Turing machines as algorithms2.3 Turing machines with multiple strings2.4 Linear speedup2.5 Space bounds2.6 Random access machines2.7 Nondeterministic machines2.8 Notes , references , and problems3 Undecidability3.1 Universal Turing machines3.2 The halting problem3.3 More undecidability3.4 Notes , references , and problemsPART II : LOGIC4 Boolean logic4.1 Boolean Expressions4.2 Satisfiability and validity4.3 Boolean functions and circuits4.4 Notes , references , and problems5 First-order logic5.1 The syntax of first-order logic5.2 Models5.3 Valid expressions5.4 Axioms and proofs5.5 The completeness theorem5.6 Consequences of the completeness theorem5.7 Second-order logic5.8 Notes , references , and problems6 Undecidability in logic6.1 Axioms for number theory6.2 Computation as a number-theoretic concept6.3 Undecidability and incompleteness6.4 Notes , references , and problemsPART III : P AND NP7 Relations between complexity classes7.1 Complexity classes7.2 The hierarchy theorem7.3 The reachability method7.4 Notes , references , and problems8 Reductions and completeness8.1 Reductions8.2 Completeness8.3 Logical characterizations8.4 Notes , references , and problems9 NP-complete problems9.1 Problems in NP9.2 Variants of satisfiability9.3 Graph-theoretic problems9.4 Sets and numbers9.5 Notes , references , and problems10 coNP and function problems10.1 NP and coNP10.2 Primality10.3 Function problems10.4 Notes , references , and problems11 Randomized computation11.1 Randomized algorithms11.2 Randomized complexity classes11.3 Random sources11.4 Circuit complexity11.5 Notes , references , and problems12 Cryptography12.1 One-way functions12.2 Protocols12.3 Notes , references , and problems13 Approximability13.1 Approximation algorithms13.2 Approximation and complexity13.3 Nonapproximability13.4 Notes , references , and problems14 On P vs.NP14.1 The map of NP14.2 Isomorphism and density14.3 Oracles14.4 Monotone circuits14.5 Notes , references , and problemsPART IV : INSIDE P15 Parallel computation15.1 Parallel algorithms15.2 Parallel models of computation15.3 The class NC15.4 RNC algorithms15.5 Notes , references , and problems16 Logarithmic space16.1 The  $L=NL$  problem16.2 Alternation16.3 Undirected reachability16.4 Notes , references , and problemsPART V : BEYOND NP17 The polynomial hierarchy17.1 Optimization problems17.2 The hierarchy17.3 Notes , references , and problems18 Computation that counts18.1 The permanent18.2 The Class P18.3 Notes , references , and problems19 Polynomial space19.1 Alternation and games19.2 Games against nature and interactive protocols19.3 More PSPACE-complete problems19.4 Notes , references , and problems20 A glimpse beyond20.1 Exponential time20.2 Notes , references , and problemsIndexAuthor index

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