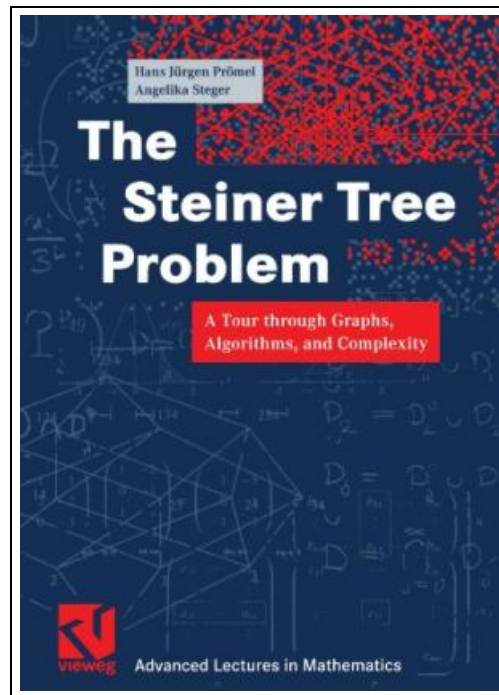


The Steiner Tree Problem



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Reviews

An exceptional pdf and the typeface employed was fascinating to see. Better then never, though i am quite late in start reading this one. Your daily life span will be transform as soon as you total looking at this publication.

(Dale White)

THE STEINER TREE PROBLEM

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Condition: New. Publisher/Verlag: Vieweg+Teubner | A Tour through Graphs, Algorithms and Complexity | In recent years, algorithmic graph theory has become increasingly important since it serves as a link between discrete mathematics and theoretical computer science. This textbook presents an introduction to the interrelated fields of graph theory, algorithms and complexity. The main topics of this book are: Exact Algorithms Computational Complexity Approximation Algorithms Limits of Approximability Randomness Helps The Manhattan Steiner Problem Heuristics Packing of Steiner Trees Applications | Die algorithmische Graphentheorie hat in den letzten Jahren als Bindeglied zwischen Diskreter Mathematik und Theoretischer Informatik mehr und mehr an Bedeutung gewonnen. Dieses Lehrbuch bietet interessierten Mathematik- und Informatikstudenten eine mathematisch orientierte Führung durch die beteiligten Gebiete Graphentheorie, Algorithmen und Komplexität. Spezifische Vorkenntnisse sind nicht erforderlich. Die Vorgehensweise ist dabei eher unkonventionell: Als roter Faden zieht sich ein auf Jakob Steiner zurückgehendes geometrisches Problem durch das Buch. Zunächst nur bei Vermessungsfragen von Interesse, hat in den letzten Jahren das sogenannte Steinerbaum-Problem durch seine vielfältigen Anwendungen (bsw. im VLSI-Layout oder bei der Untersuchung phylogenetischer Bäume) große Aufmerksamkeit erfahren, und es sind zahlreiche interessante Resultate in seinem Umkreis bewiesen worden. Diese Ergebnisse ermöglichen es, an Hand des einen Problems neuere Entwicklungen in der Komplexitätstheorie, bei effizienten Algorithmen, sowie in der Graphentheorie nachzuzeichnen und ihre Wechselwirkungen transparent zu machen. Ein wesentliches Charakteristikum dieses Buches ist, dass die einzelnen Kapitel mit Exkursen enden, in denen die zuvor für Steinerbäume dargestellten Konzepte und Methoden in einen breiteren Kontext gestellt und vertieft werden. | 1 Basics I: Graphs.- 1.1 Introduction to graph theory.- 1.2 Excursion: Random graphs.- 2 Basics II: Algorithms.- 2.1 Introduction to algorithms.- 2.2 Excursion: Fibonacci heaps and amortized time.- 3 Basics III: Complexity.- 3.1 Introduction to complexity theory.- 3.2 Excursion: More NP-complete problems.- 4 Special Terminal Sets.- 4.1 The shortest path problem.- 4.2 The minimum spanning tree problem.- 4.3 Excursion: Matroids and the greedy algorithm.- 5...

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