# Handbook of Graph Drawing and Visualization: Discrete Mathematics and Its Applications

Graphs are a fundamental data structure used to represent relationships between objects. They are used in a wide variety of applications, including social networks, computer networks, and biological networks. The Handbook of Graph Drawing and Visualization provides a comprehensive and up-to-date overview of the field of graph drawing and visualization.
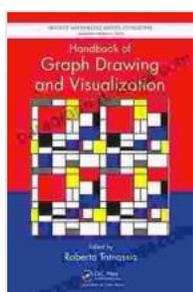
Handbook of Graph Drawing and Visualization (Discrete Mathematics and Its Applications 81) by Peter Armsmiller

★★★★☆ 4.5 out of 5

Language	: English
File size	: 40399 KB
Screen Reader	: Supported
Print length	: 862 pages
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The book is divided into three parts: Part I introduces the basic concepts of graph drawing and visualization, Part II covers the main techniques and algorithms for graph drawing and visualization, and Part III presents a number of applications of graph drawing and visualization.

Part I introduces the basic concepts of graph drawing and visualization. It covers the following topics:

- What is a graph?

- Different types of graphs

- Graph drawing algorithms

- Graph visualization techniques

Part II covers the main techniques and algorithms for graph drawing and visualization. It covers the following topics:

- Force-directed algorithms

- Spring algorithms

- Spectral algorithms

- Geometric algorithms

Part III presents a number of applications of graph drawing and visualization. It covers the following topics:

- Social networks

- Computer networks

- Biological networks

- Information visualization

The Handbook of Graph Drawing and Visualization is a valuable resource for researchers, practitioners, and students in the field of graph drawing and visualization. It provides a comprehensive overview of the field, and it

covers the latest techniques and algorithms for graph drawing and visualization.

Table of Contents

1.
2. Basic Concepts
3. Graph Drawing Algorithms
4. Graph Visualization Techniques
5. Applications of Graph Drawing and Visualization

About the Authors

The Handbook of Graph Drawing and Visualization is edited by Roberto Tamassia, Ioannis G. Tollis, and Giuseppe di Battista. Roberto Tamassia is a professor of computer science at Brown University. Ioannis G. Tollis is a professor of computer science at the University of Patras. Giuseppe di Battista is a professor of computer science at the University of Rome "La Sapienza".

Reviews

"The Handbook of Graph Drawing and Visualization is a valuable resource for researchers, practitioners, and students in the field of graph drawing and visualization. It provides a comprehensive overview of the field, and it covers the latest techniques and algorithms for graph drawing and visualization." - Professor John Hopcroft, Cornell University

"The Handbook of Graph Drawing and Visualization is a must-have for anyone working in the field of graph drawing and visualization. It is a

comprehensive and up-to-date overview of the field, and it covers all the latest techniques and algorithms." - Professor Fabrizio Frati, University of Rome "La Sapienza"

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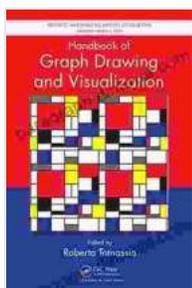
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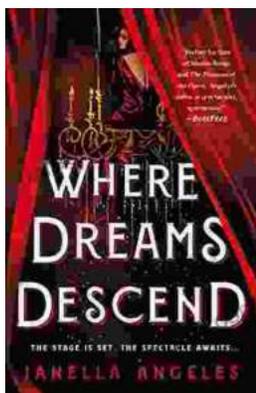
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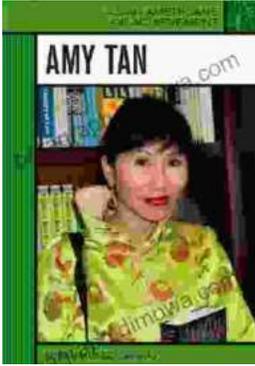
Amy Tan: Asian Americans of Achievement

Amy Tan is an American writer known for her novels and short stories that explore the Asian American experience. She is one of the most celebrated and...