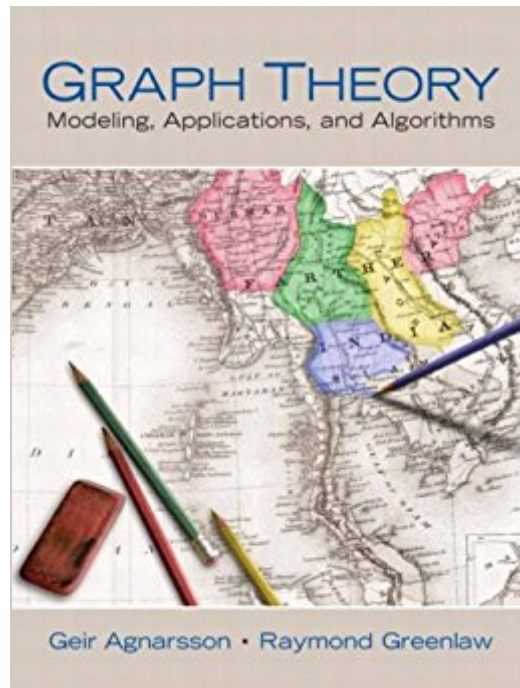




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Graph Theory: Modeling, Applications, And Algorithms



Synopsis

Once considered an “unimportant” branch of topology, graph theory has come into its own through many important contributions to a wide range of fields and is now one of the fastest-growing areas in discrete mathematics and computer science. This practical, intuitive book introduces basic concepts, definitions, theorems, and examples from graph theory. Presents a collection of interesting results from mathematics that involve key concepts and proof techniques. Covers design and analysis of computer algorithms for solving problems in graph theory. Discusses applications of graph theory to the sciences. Includes a collection of graph algorithms, written in Java, that are ready for compiling and running. For anyone interested in learning graph theory, discrete structures, or algorithmic design for graph problems.

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Once considered an “unimportant” branch of topology, graph theory has come into its own through many important contributions to a wide range of fields - and is now one of the fastest-growing areas in discrete mathematics and computer science. This practical, intuitive book introduces basic concepts, definitions, theorems, and examples from graph theory. Presents a collection of interesting results from mathematics that involve key concepts and proof techniques. Covers design and analysis of computer algorithms for solving problems in graph theory. Discusses applications of graph theory to the sciences. Includes a collection of graph algorithms, written in Java, that are ready for compiling and running. For anyone interested in learning graph theory,

discrete structures, or algorithmic design for graph problems.

Got this as required for my Graph Theory course - the book is just too dense, and the explanations are hard to follow. I have to resort to YouTube videos to fully understand the material.

This is a very good introductory book on Graph Theory. If you don't want to be overwhelmed by Doug West's, etc., and yet receive a decent introduction to the topic, this book is your best bet. It covers all the topics required for an advanced undergrad course or a graduate level graph theory course for Math, engineering, operations research or computer science students in good depth and details. There are good examples and interesting exercises; some computer codes (JAVA) are also available in the book implementing some of the algorithms. I would say O.R. and CS people will benefit a lot from it both as a reference or a textbook if adapted for a one semester graduate course. The only drawback is the price!

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