

WALLIS, W.D., "A BEGINNER'S GUIDE TO GRAPH THEORY", BIRKHUSER, BOSTON-BASEL-BERLIN, 2000, ISBN 0-8176-4176-9, 230PP.

TEODOR TOADERE

This is a very good course on graph Theory for students in mathematics, computer science, engineers and psychologists. The author has taught "graph theory courses at the University of Newcastle and Southern Illinois University over the past 30 years".

It is a lucid book and has attained a balance between the theoretical and practical approaches.

The book is divided into 13 chapters and two appendices: Hint & Answers and Solutions.

Each chapter presents theoretical notions, examples and exercises.

The first four chapters introduce the reader in graph theory (it is presented the concepts of graphs, walks, paths, cycles, cuts, connectivity and tree).

The fifth chapter deals with the application of several vector spaces concepts graphs theory.

The next four chapters presents: factorizations, graph coloring, planarity and Ramsey theory.

Chapter 10 introduces directed graphs. The two following chapters are devoted to two important application areas: critical paths and network flows. The last chapter is dedicated for computational considerations.

The book has 109 references cited in text.

We think that this is a very good book, which can be useful to any person who wants to introduce himself in the graph theory or to deepen its study.

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