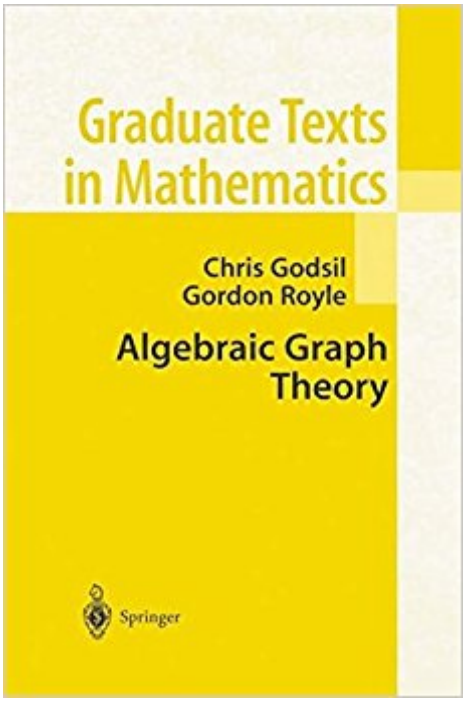
Algebraic Graph Theory (Graduate Texts In Mathematics)



Synopsis

This book presents and illustrates the main tools and ideas of algebraic graph theory, with a primary emphasis on current rather than classical topics. It is designed to offer self-contained treatment of the topic, with strong emphasis on concrete examples.

Book Information

Series: Graduate Texts in Mathematics (Book 207)

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Customer Reviews

C. Godsil and G.F. Royle Algebraic Graph Theory "A welcome addition to the literature . . . beautifully written and wide-ranging in its coverage."â •MATHEMATICAL REVIEWS "An accessible introduction to the research literature and to important open questions in modern algebraic graph theory"â •L’ENSEIGNEMENT MATHEMATIQUE

An excellent reference for those starting to learn about this subject. It’s laid out well and easy to understand.

I bought this book because I need to look for connections between groups and the graph complement of a graph G. The book is ok but unfottunately I did not find information about the topic I am researching.

Very cool stuff going on here.

I have found this book very helpful in trying to understand both the basics of graph theory and advanced topics like spectral graph theory. This book does not use brooding overly complex language and moves through the material at a very good pace. It gives an exciting taste of some beautiful examples in graph theory, such as the Coxeter graph, to motivate research in it, and moves at just the right pace. It doesn't take forever to explain simple concepts and lets the reader quickly understand many concepts, even somewhat advanced ones, without making the material too difficult.The reader is very much given a choice as to how much detail s/he wants to absorb. One can have a brief glance at just the theorems and definitions, which are easy to find using the index, and are well-stated. Or, one can briefly glance at the text without going into too much detail but still get the big picture. Finally, even complete understanding can be achieved without taking up too much time.I highly recommend this book for a first or second course in graph theory, to anyone looking to start research in graph theory, for teachers who wish to motivate their students to start research in graph theory, as a reference, or as a quick borrow to learn a concept or two, making this book very important for any library.

--The first part of the book is devoted to quite hard chapters on transitive, arc-transitive graph, homomorphism, etc.--The second part is about Matrix theory, interlacing, strongly regular graph, two graph, generalized line graph, etc it is the main part of the book.--The third part is about cut, flows, Knots, etc.This book can serve as a nice introduction to the subject of Graph theory.Nevertheless:--This book lacks some more example, for this see "distance regular graph".--It is sketchy on chromatic polynomial, planar graph.--The original book by Norman Biggs is shorter, smarter, nicer

just here to support professor Godsil. I am terrible at this actually. But it is a fascinating topic,and was a very new concept of math to me. :)

Introduction (Graduate Texts in Mathematics) (v. 56) Combinatorics and Graph Theory (Springer Undergraduate Texts in Mathematics and Technology) Combinatorics and Graph Theory (Undergraduate Texts in Mathematics) Algebraic Curves and Riemann Surfaces (Graduate Studies in Mathematics, Vol 5) Discrete Mathematics with Graph Theory (Classic Version) (3rd Edition) (Pearson Modern Classics for Advanced Mathematics Series) Ideals, Varieties, and Algorithms: An Introduction to Computational Algebraic Geometry and Commutative Algebra (Undergraduate Texts in Mathematics) Matroid Theory (Oxford Graduate Texts in Mathematics) Matrices: Theory and Applications (Graduate Texts in Mathematics) Deformation Theory (Graduate Texts in Mathematics) An Introduction to Ergodic Theory (Graduate Texts in Mathematics) Number Theory: Volume I: Tools and Diophantine Equations (Graduate Texts in Mathematics) Representation Theory: A First Course (Graduate Texts in Mathematics) A Course in the Theory of Groups (Graduate Texts in Mathematics, Vol. 80) Introduction to Lie Algebras and Representation Theory (Graduate Texts in Mathematics) (v. 9)