Graduate Texts in Mathematics

Reinhard Diestel

Graph Theory

6th Edition

This standard textbook on modern graph theory combines the authority of a classic with the engaging freshness of style that is the hallmark of active mathematics. It covers the core material of the subject, with concise yet complete proofs, while offering glimpses of more advanced methods in each field via one or two deeper results.

This is a major new edition. Among many other improvements, it offers additional tools for applying the regularity lemma, brings the tangle theory of graph minors up to the cutting edge of current research, and addresses new topics such as chi-boundedness in perfect graph theory.

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* Sections marked by an asterisk are recommended for a first course.
Of sections marked (*), the beginning is recommended for a first course.