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*Gary Chartrand, Linda Lesniak, Ping Zhang*

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Continuing to provide a carefully written, thorough introduction, **Graphs & Digraphs, Fifth Edition** expertly describes the concepts, theorems, history, and applications of graph theory. Nearly 50 percent longer than its bestselling predecessor, this edition reorganizes the material and presents many new topics.

## New to the Fifth Edition

- New or expanded coverage of graph minors, perfect graphs, chromatic polynomials, nowhere-zero flows, flows in networks, degree sequences, toughness, list colorings, and list edge colorings
- New examples, figures, and applications to illustrate concepts and theorems
- Expanded historical discussions of well-known mathematicians and problems
- More than 300 new exercises, along with hints and solutions to odd-numbered exercises at the back of the book
- Reorganization of sections into subsections to make the material easier to read
- Bolded definitions of terms, making them easier to locate

Despite a field that has evolved over the years, this student-friendly, classroom-tested text remains the consummate introduction to graph theory. It explores the subject's fascinating history and presents a host of interesting problems and diverse applications.

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