Introductory Graph Theory with Applications

By Fred Buckley, Marty Lewinter

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Graph theory's practical applications extend not only across multiple areas of mathematics and computer science but also throughout the social sciences, business, engineering, and other subjects. Buckley and Lewinter have written their text with students of all these disciplines in mind. Pedagogically rich, the authors provide hundreds of worked-out examples, figures, and exercises of varying degrees of difficulty. Concepts are presented in a readable and accessible manner, and applications are stressed throughout so the reader never loses sight of the powerful tools graph theory provides to solve real-world problems. Such diverse areas as job assignment, delivery truck routing, location of emergency or service facilities, network reliability, zoo design, exam scheduling, error-correcting codes, facility layout, and the critical path method are covered.

Table of Contents:

1. Introductory Concepts 2. Introduction to Graphs and Their Uses 3. Trees and Bipartite Graphs 4. Distance and Connectivity 5. Eulerian and Hamiltonian Graphs 6. Graph Coloring 7. Matrices 8. Graph Algorithms 9. Planar Graphs 10. Digraphs and Networks 11. Special Topics Answers/Solutions to Selected Exercises

Title of related interest also from Waveland Press: Molluzzo-Buckley, *A First Course in Discrete Mathematics* (ISBN 9780881339406).

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