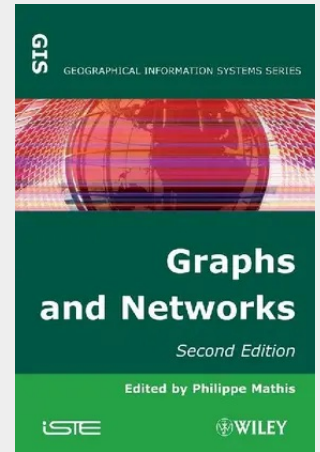


Graphs and Networks

Multilevel Modeling

A transport network is typically a network of roads, streets, pipes, aqueducts, power lines, or nearly any structure that permits either vehicular movement or the flow of some commodity. Transport network analysis, a field of transport engineering that typically employs the use of graph theory, is used to determine the flow of vehicles, commodities, or people through these networks. It may combine different modes of transport - for example, walking and driving - to model multi-modal journeys. This edition is completely updated and contains two new chapters covering spatial analysis and urban management through graph theory simulation. Highly practical, the simulation approach allows readers to solve classic problems, such as placement of high-speed roads, the capacity of a network, pollution emission control, and more.

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