This book focuses on the use of graphs for the simulation and representation of transport networks, and is a completely revised and expanded update of the first edition of the same title. The success of the first edition is built upon in order to further improve the book for use as a practical reference, textbook, and as a scholarly exploration.

The book's scope covers networks in both spatial analysis and urban management, together with simulation using graph theory, a tool that makes it possible to create solutions to various classic problems such as the analysis of high-speed roads between one or more origins and destinations, the capacity of a network, and so on. It is also possible to apply these results to other applications such as personal networks and communications networks, making this book a valuable reference tool for professionals, researchers, and students working in these areas.

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