

It is a pleasure to announce the publication by Springer of the [\*Network Design with Applications to Transportation and Logistics\*](#) book. Written by a group of distinguished and respected researchers in the field, the book explores the methodological developments in network design and their applications in transportation and logistics. The book should appeal to researchers, graduate students, analysts, and planners

Network design is a major class of Operations Research, where network flow, combinatorial, mixed-integer, stochastic, and large-scale optimization meet. It is also one of the most important application areas of Operations Research, network design models providing the natural and appropriate way to represent, analyze, and plan many complex systems, including transportation, logistics, telecommunications, and manufacturing,

The book defines the current state of the art in the general area of network design and applications in transportation and logistics, identifying trends, challenges, and perspectives.

The book is divided into three parts. Part I examines basic fixed-charge network design models and exact, metaheuristic, and parallel algorithms, while Part II focuses on more advanced models and solution methods. Chapters cover topics such as multifacility, flow-constrained, bilevel, piecewise-cost, topology-constrained, stochastic, and robust network design. Finally, Part III is dedicated entirely to application areas for network design. These areas range from service network design, to hub, railroad, motor-carrier, liner-shipping, logistics, public-transport, and city-logistics networks, to collaboration in transportation and logistics.