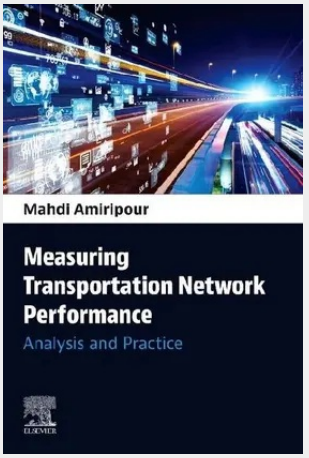
Amiripour

Measuring Transportation Network Performance

Analysis and Practice



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Measuring Transportation Network Performance: Analysis and Practice is a comprehensive guide to developing, analysing, and interpreting performance measures for transportation networks. It explains the concepts, technical requirements, analytical choices, and practical considerations needed to build an effective network performance measurement system and to understand how transportation networks change over time. The book examines the major dimensions of network performance across different modes of transport, including travel time, speed, delay, reliability, congestion, flow, connectivity, accessibility, resilience, equity, environmental performance, and safety. Rather than presenting performance measures as isolated indicators, it explains how they should be defined, calculated, interpreted, and combined to answer practical transportation planning and network management questions. Practical examples highlight common analytical challenges, limitations, and errors that can influence the conclusions drawn from transportation data. The book also takes readers through the practical process of network performance measurement. Detailed case studies demonstrate how a performance measurement system can be developed and how multiple measures can be brought together to explain the performance story of a transportation network. Strongly focused on practical application, the book is written for transportation engineers, planners, analysts, researchers, transport agencies, consultants, and others involved in understanding network performance. It helps readers move beyond producing indicators toward using data to understand network conditions, diagnose problems, evaluate change, and communicate meaningful performance insights that support better planning, operations, and decision making.

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