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Descrizione fisica	1 online resource (283 pages) : color illustrations, color maps
Soggetti	Transportation - Planning - Mathematical models Transportation - Cost effectiveness Network analysis (Planning)
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Sommario/riassunto	"Transportation systems belong to the wider class of infrastructure systems, which also includes water supply, drainage, wastewater and sewerage, telecommunications, and gas and electricity supply systems. Vulnerability Analysis for Transportation Networks provides an integrated framework for understanding and addressing how transportation networks across all modes perform when parts of the network fail or are substantially degraded, such as extreme weather events, natural disasters, road crashes, congestion incidents or road repair. The book discusses the importance of maintaining reasonable levels of serviceability, i.e., function, in a transportation system and how this can be assessed. The book reviews the range of existing approaches to network vulnerability and identifies the application of each approach, illustrating them with case studies from around the world. The book also covers the dimensions of time (hours, days, weeks, months and years), spatial coverage (national networks, regional areas, metropolitan and urbanized areas) and modes (road, urban public transport and national railway systems). It shows how the provided framework can be used to indicate the most suitable accessibility tools and metrics for a particular application. Vulnerability

Analysis for Transportation Networks is a useful resource for academics and researchers in transportation networks and for transportation systems managers and managers of other infrastructure systems involved in the planning and management of transportation networks and services who also need to consider the risk in economic, social, and political terms."--
