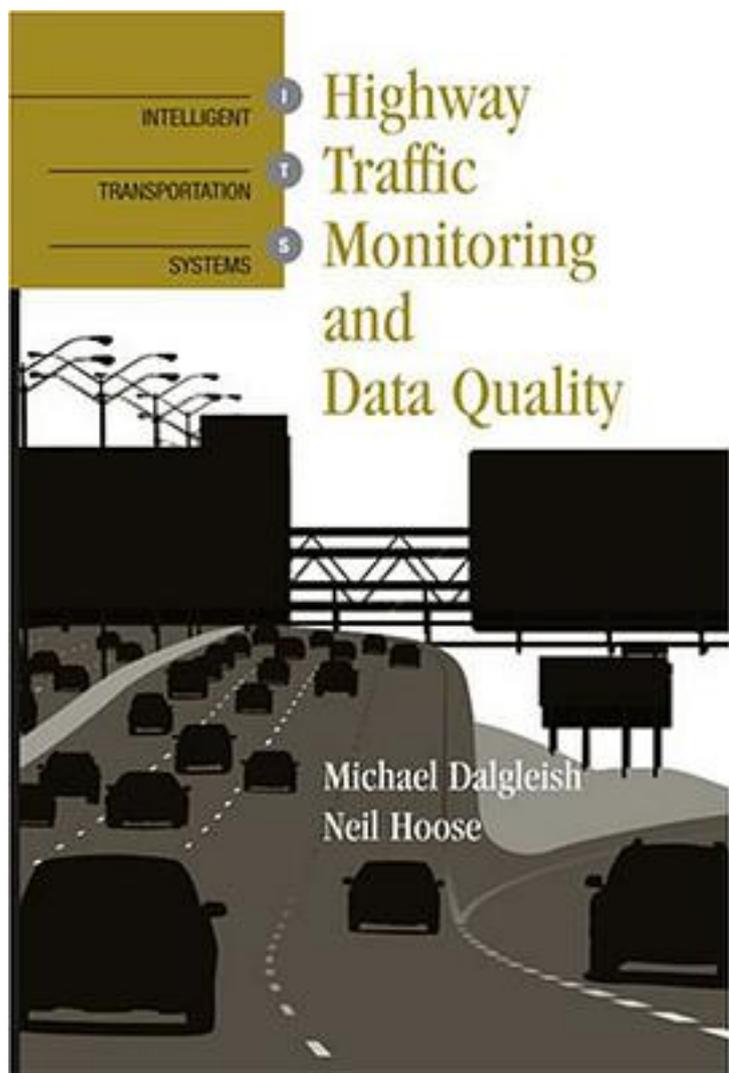


# Highway Traffic Monitoring and Data Quality



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著者:Dagleish, Michael/ Hoose, Neil

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Increasingly sophisticated traffic monitoring and analysis tools are blazing new trails in traffic management, and this first-of-its-kind book provides one-stop access to them all. It describes the latest sensors, processors, and communication links and their applications in everything from vehicle counts to urban congestion measurement. Moreover, this authoritative book describes state-of-the-art statistical techniques that will help ITS (intelligent transportation system) professionals make the most of their traffic data collection and assessment efforts. This comprehensive volume provides full details on today's vehicle, traffic, and environmental sensors and their use in capturing vehicle speed, weight, occupancy, journey time, plate number, and other data. It describes methods of assessing equipment performance and reliability, including the evaluation of bias and precision. This practical book offers ITS professionals guidance on equipment selection, advice for solving data collection problems in the field, and quality control procedures for traffic data management.

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