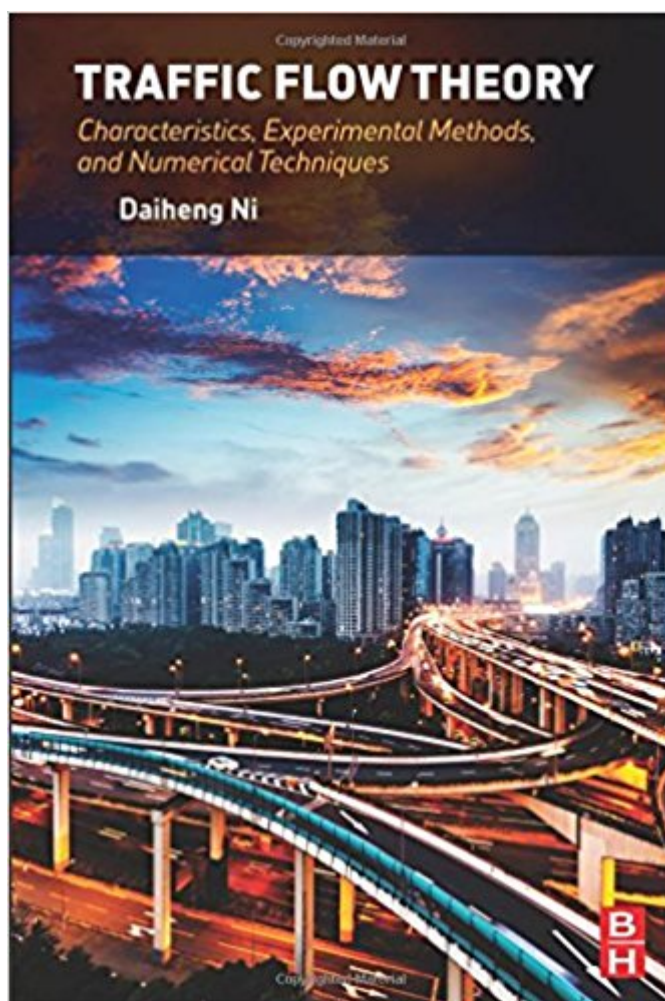The book was found

Traffic Flow Theory: Characteristics, Experimental Methods, And Numerical Techniques

Synopsis

Creating Traffic Models is a challenging task because some of their interactions and system components are difficult to adequately express in a mathematical form. Traffic Flow Theory: Characteristics, Experimental Methods, and Numerical Techniques provide traffic engineers with the necessary methods and techniques for mathematically representing traffic flow. The book begins with a rigorous but easy to understand exposition of traffic flow characteristics including Intelligent Transportation Systems (ITS) and traffic sensing technologies.Includes worked out examples and cases to illustrate concepts, models, and theoriesProvides modeling and analytical procedures for supporting different aspects of traffic analyses for supporting different flow modelsCarefully explains the dynamics of traffic flow over time and space

Book Information

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Customer Reviews

Concise and readable, Traffic Flow Theory: Characteristics, Experimental Methods and Numerical Techniques incorporates the most current developments in traffic flow modeling techniques for mathematically expressing flow characteristics. The book begins with a rigorous but easy to understand exposition of traffic flow characteristics including Intelligent Transportation Systems (ITS) and traffic sensing technologies. This is followed by self-contained chapters involving traffic flow modeling on a macroscopic, microscopic and picoscopic level. The book™s objective is to establish a theoretical foundation for traffic modeling and simulation at multiple scales, seamlessly within a single system.

University of Massachusetts - Amherst, Associate Professor, Department of Civil and Environmental Engineering

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