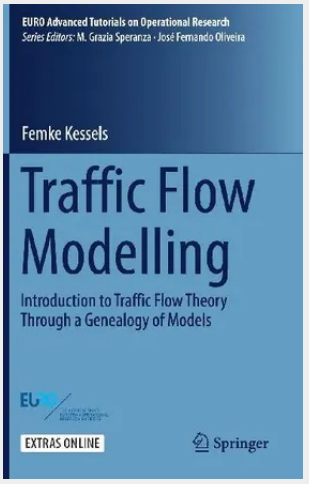
Kessels

Traffic Flow Modelling

Introduction to Traffic Flow Theory Through a Genealogy of Models



This book introduces readers to the main traffic flow modelling approaches and discusses their features and applications. It provides a comprehensive and cutting-edge review of traffic flow models, from their roots in the 1930s to the latest developments in the field. In addition, it presents problem sets that offer readers further insights into the models and hands-on experience with simulation approaches. The simulations used in the exercises can be built upon for readers' own research or other applications.
The models discussed in this book are applied to describe, predict and control traffic flows on roads with the aid of rapid and accurate estimations of current and future states. The book shows how these models are developed, what their chief characteristics are, and how they can be effectively employed.

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