



Transportation Engineering: Theory, Practice and Modeling

By Dusan Teodorovic, Milan Janic

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Transportation Engineering: Theory, Practice and Modeling is a guide for integrating multi-modal transportation networks and assessing their potential cost and impact on society and the environment. Clear and rigorous in its coverage, the authors begin with an exposition of theory related to traffic engineering and control, transportation planning, and an evaluation of transportation alternatives that is followed by models and methods for predicting travel and freight transportation demand, analyzing existing and planning new transportation networks, and developing traffic control tactics and strategies. Written by an author team with over thirty years of experience in both research and teaching, the book incorporates both theory and practice to facilitate greener solutions.

- Contains worked out examples and end of the chapter questions
- Covers all forms of transportation engineering, including air, rail, and public transit modes
- Includes modeling and analytical procedures for supporting different aspects of traffic and transportation analyses
- Examines different transport mode sand how to make them sustainable
- Explains the economics of transport systems in terms of users' value of time

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