DESCRIPTION

Already the market leader in the field, Modelling Transport has become still more indispensible following a thorough and detailed update. Enhancements include two entirely new chapters on modelling for private sector projects and on activity-based modelling; a new section on dynamic assignment and micro-simulation; and sizeable updates to sections on disaggregate modelling and stated preference design and analysis. It also tackles topical issues such as valuation of externalities and the role of GPS in travel time surveys.

Providing unrivalled depth and breadth of coverage, each topic is approached as a modelling exercise with discussion of the roles of theory, data, model specification, estimation, validation and application. The authors present the state of the art and its practical application in a pedagogic manner, easily understandable to both students and practitioners.

• Follows on from the highly successful third edition universally acknowledged as the leading text on transport modelling techniques and applications

• Includes two new chapters on modelling for private sector projects and activity based modeling, and numerous updates to existing chapters

• Incorporates treatment of recent issues and concerns like risk analysis and the dynamic interaction between land use and transport

• Provides comprehensive and rigorous information and guidance, enabling readers to make practical use of every available technique
• Relates the topics to new external factors and technologies such as global warming, valuation of externalities and global positioning systems (GPS).

ABOUT THE AUTHOR

Professor Juan de Dios Ortúzar currently works for the Department of Transport Engineering and Logistics, Pontificia Universidad, Chile. He has over 30 years experience as an academic and advisor on transport modelling and social project evaluation. He has fostered the development of discrete choice models and its application to determining willingness-to-pay for reducing transport externalities.

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NEW TO EDITION

This edition features four significant content enhancements; a new chapter on modelling for private sector projects; a new chapter on activity-based modelling; a new section on dynamic assignment and micro-simulation; and sizeable updates to the disaggregate modelling and Stated Preference sections. It also tackles topical issues such as congestion charging, global warming and the role of GPS in travel time surveys.
FEATURES

• Follows on from the highly successful third edition that is universally acknowledged as the leading text on transport modelling techniques and applications.

• Includes substantial chapter updates and two new chapters on modelling for private sector projects and activity based modelling.

• Provides comprehensive and rigorous information and guidance, enabling readers to make practical use of every available technique.

• Relates the topics to new external factors and technologies such as global warming, congestion charging and global positioning systems (GPS).

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