CONTENTS

Information and Control Systems
Traffic Management Strategies

System Optimal Dynamic Assignment for Electronic Route Guidance in a Congested Traffic Network
H. S. Mahmassani and S. Peeta 3

Assignment in the Integration of Urban Traffic Control and Dynamic Route Guidance
M. G. H. Bell, C. M. Shield, J. M. Anderson and F. Busch 39

Design Aspects of Advanced Traveler Information Systems
I. Kaysi, M. Ben-Akiva and A. de Palma 59

An On-Line Dynamic Traffic Prediction Model for an Inter-Urban Motorway Network
M. Ben-Akiva, E. Cascetta and H. Gunn 83

Network Design Models and Methods for Urban Traffic Management
G. Cantarella, A. Sforza 123

Development of a Combined Traffic Signal Control-Traffic Assignment Model
M. Al-Malik, N. H. Gartner 155

Traffic Control under Pollutant Emissions Constraints
G. Bruno, G. Improta 187
Dynamic Network Equilibrium

Traffic Models for Dynamic Assignment

J.D. Addison and B.G. Heydecker 213

A Dynamic User Equilibrium Assignment Model - A Rigorous Formulation

H.B.B. Cybis 233

Approximation to Optimal Dynamic Traffic Assignment of Peak Period Traffic to a Congested City Network

M.O. Ghali and M.J. Smith 251

Sensitivity Analysis of a Dynamic Equilibrium Model for Route and Arrival Time Choice

G. Bellei and M. Bielli 271

An Algorithm for Extremals Calculation in Optimal Control Problems with Applications to the Dynamic Traffic Assignment Problem

E. Codina and J. Barceló 311

Dynamic Congestion Pricing and the Price of FIFO

M. Carey 333

An Equilibrium Assignment Model Based on Simulated Delays

A. Regueros, J.N. Prashker, D. Mahalel, R. Aharoni 351