



THEORY & APPLICATIONS OF ECONOMICS IN HIGHWAY AND TRANSPORT PLANNING

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The book is useful to the students and professionals of highway, engineering and transport planners involved with transport economics. It is divided in two parts. **Part-1:** Covers fundamental of economics and Micro-economics and **Part-2:** related to applications of transport planning

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Introduction ★ Costing in transport sector ★ Transport Demand ★ Supply ★ Supply in transportation ★ Vehicle operating cost ★ Revenue, Profit & product ★ Interest & capital budgeting ★ Demand forecasting ★ Traffic forecast ★ Project feasibility for highway sector ★ Concept and application of hdm-4 ★ Study on potential for economic gains from IWT ★ Evaluation of alternative expressway alignments ★ Options for funding transportation projects ★ Congestion Pricing



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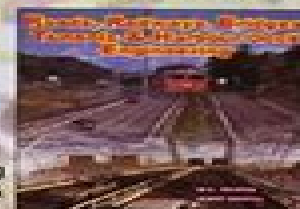
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infrastructure through careful planning and active management This trend is not limited to developed nations but is recognized across the globe Edited by renowned authority **Highway Engineering** Martin Rogers, Bernard Enright, 2023-07-12 HIGHWAY ENGINEERING Understand a foundational area of civil engineering with this up to date textbook Highway construction is a complex discipline within civil engineering with the potential to transform national economies and transportation infrastructures With car infrastructure coming under both increasing demand and increasing scrutiny for its environmental impact the challenges and complexities of highway engineering have never been a more vital subject The future of sustainable transportation depends on an engineering profession with a solid grasp of the fundamentals of highway design and construction Highway Engineering provides a comprehensive overview of these fundamentals preparing civil engineers and engineering students to analyze design and build highways Situating its subject in the context of a broader political economy social and ecological reality and more it proceeds in a logical sequence from planning to design to construction to maintenance The result is a fully up to date introduction to this subject at the heart of transport engineering Readers of the fourth edition of Highway Engineering will also find Strong integration of material from the UK Design Manual for Roads and Bridges incorporating recent significant changes in the design of highway pavements Detailed examples and case studies to cultivate deepened understanding Increased attention to the growing importance of non car based modes of highway transportation walking cycling and public transport Highway Engineering is essential for engineering students studying civil engineering or transport engineering as well as for professional civil engineers looking for a reference work

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