

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, if divided in two parts. Parts-1 Covers fundamental of economics and Micro- economics and Part-2: related to applications of transport planning.

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 perjects * Congestion Pricing .

Pages 320+VIII



ROADS, RAILWAYS, BRIDGES, TUNNELS AND HARBOUR DOCK ENGINEERING

5th Edition

CONTENTS

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Introduction * Glossary * History of development of highway * Highway Planning * Highway Economics and Financing * Guiding Principles of route selection & Highway Location * Drainage * Highway Materials * Geometric Design *

Highway Construction ★ Hill Roads ★ Highway Machinery ★ Road Arbertouture ★ Traffic Engineering ★ Highway failure and their maintenance ★ Pavement design ★ Quality Control ★ Objective Type Questions. RAILWAY ENGINEERING

History of Railways ★ Railway track and track stresses ★ Railway Gauges ★ Rail ★ Sleepers ★ Ballast ★ Formation and its drainage * Track fittings and fastening * Track Alignment & Surveying * Traction and tractive resistance * Rolling stock of railways * Geometric design of a railway track * Creep * Stations and Yards * Station Equipments * Points. Crossings and simple layouts * Signalling & Inter locking * Level Crossings * Welding of raits * Long and short welded raits * Manual maintenance of track * Mechanised maintenance of Track * Directed track maintenance * Measured shovel Packing * Track Tolerances ★ Track Renewal ★ Accidents ★ Duties of Permanent way officials ★ Material Management ★ Objective Type Questions

BRIDGE ENGINEERING

Introduction * Bridge Terminology * Investigations and Planning for Bridges * Types of Bridges * General Principles of Design * Sub-structures * Foundation * Super Structure for Arch Bridges * Girder Bridges ★ Low Cost Bridges ★ Permanent Small Bridges ★ Bearings ★ Loads on Bridges ★ Design of bridge foundation * Design of such bridges * Design of solid R.C.C. Slab bridges * R.C.C. Girder bridges * Inspection of bridges * Maintenance of bridges * Testing and strengthening of bridges * Protection and Training works for bridges * Objective Type Questions. TUNNEL ENGINEERING

General Aspects * Alignment of Tunnels * Drilling * Blasting * Tunnelling * Shafts * Ventilation, lighting and drainage of tunnels * Tunnel-Lining * Safety in Tunnelling * Objective Type Questions.

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Water transportation & sea ★ Terminology ★ Natural Phenomena-Wind, Wave and Cyclones ★ Harbours and Ports * Break Waters * Docks * Dry or Repair Docks * Locks * Channel, Basin and Berths * Appurtenances of a Harbour * Apron, Transit sheds and Warehouses * Dredging and Dregers * Navigational Alds ★ Shore Protection Works ★ Objective Type Questions.

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