



Railway Transportation Systems: Design, Construction and Operation

This book presents a comprehensive overview of railway passenger and freight transport systems, from design through to construction and operation. It covers the range of railway systems, from conventional and high-speed inter-urban passenger systems, through suburban and regional and urban, specialist and freight. For each, it provides a definition, a brief overview of its evolution, the main design, construction and operational characteristics, the preconditions for the selection, and the steps required to check the feasibility of its implementation.

Features

- Covers a series of background themes, such as safety and environment, common to all systems
- Heavily grounded in both teaching and practice
- For students going into the industry and practitioners already there
- Reviews three main components of all railway systems: track, rolling stock, and operation
- Describes a methodology for testing the feasibility of the implementation of railway systems

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The Railway as a Transport System. Loads on Track. Behavior of Rolling Stock on Track. Tramway. Metro. Monorail. Automatic Passenger Transport Railway Systems of Low and Medium Transport Capacity. Suburban Railway. Rack Railway. Cable Railway Systems for Steep Gradients. Organisation and Management of Passenger Interurban Railway Transport. High-Speed Trains. Tilting Trains. Metric Track Gauge Interurban Railway Networks. Organisation and Management of Freight Railway Transport. Heavy Haul Rail Transport. Impact of Traffic Composition on the Economic Profitability of a Railway System. Railway Safety. Railway and the Natural Environment. Cutting-Edge Technologies in Railways.

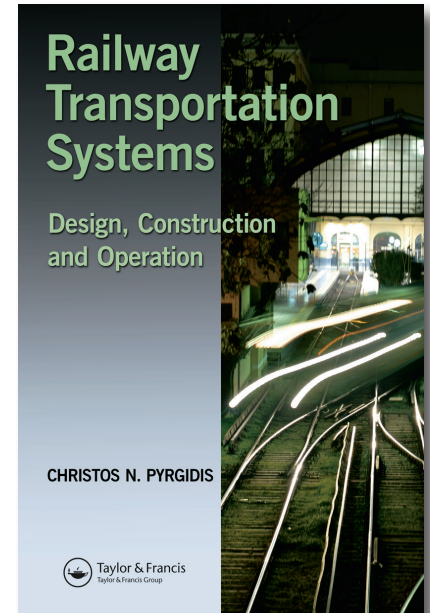
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Author

Christos N. Pyrgidis

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