



Railway Management and Engineering

By V A, Professor Profillidis

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In a rapidly changing world, with increasing competition in all sectors of transportation, railways are in a period of restructuring their management and technology. New methods of organization are introduced, commercial and tariff policies change radically, a more entrepreneurial spirit is required. At the same time, new high-speed tracks are being constructed and old tracks are renewed, high-comfort rolling stock vehicles are being introduced, logistics and combined transport are being developed. Awareness of environmental issues and the search for greater safety give a new role to the railways within the transportation system. Meanwhile, methods of analysis have significantly evolved, principally due to computer applications and new ways of thinking and approaching old problems.

Thus, it becomes necessary to come up with a new scientific approach to tackle management and engineering aspects of railways, to understand in-depth the origins and inter-relationships of the various situations and phenomena and to suggest the appropriate methods and solutions to solve the various emerging problems. This book aims to cover the need for a new scientific approach for railways. It is intended to be of use to railway managers, economists and engineers, consulting economists and engineers, students of schools of engineering, transportation, economics, and management. The book is divided into three parts, which deal successively with management, track, and rolling stock, environment and safety.

Each chapter of the book contains the necessary theoretical analysis of the phenomena studied, the recommended solutions, applications, charts and design of the specific railway component. In this way, both the requirement for a theoretical analysis is met, and the need of the railway manager and engineer for tables, nomographs, regulations, etc. is satisfied. Railways in Europe have separated activities of infrastructure from those of operation. In other parts of the world, however, railways remain unified. The book addresses both situations (separated and unified railways). Railways present great differences in their technologies. Something may be valid for one such technology, but not for another. To overcome this problem, regulations of the International Union of Railways (UIC) as well as European Standardization (CEN) and European Technical Specifications for Interoperability (TSIs) have been used to the greatest extent possible. Whenever a specific technology or method is presented,

the limits of its application are clearly emphasized.

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Editorial Review

Review

'Currently, rail engineers are under enormous pressures simultaneously to improve quality of service, increase safety and yet simultaneously cut costs. They need to understand not just engineering, but also management, economics, government policy and legislation. This text can be strongly recommended for the excellent coverage it provides on all these issues, drawing on worldwide experience.' Chris Nash, University of Leeds, UK 'If you are interested in learning about the role of the railway in the transport system as well as the technical and financial aspects of its business, in Professor Profillidis' book you will find accurate, well-supported answers to your questions, including a clear explanation of the contribution that this mode of transport could make to the conservation of the environment.' Andres Lopez Pita, Catalonia Polytechnic University, Spain Review of Third Edition: 'Now in its third edition, this amazingly comprehensive book far surpasses the wildest dreams of the most devoted trainspotter and railway buff, while seriously offering a new scientific approach to the management and engineering aspects of railways...the author is an internationally recognized authority on track mechanics and transport economics, a fact clearly reflected in the wide range of world examples and references which make the book such a valuable source of reference, guidance, planning and implementation...the text is considerably enhanced throughout by an outstanding wealth of illustrations...the subject range and depth is amazing...the language is lively and the presentation and layout make reading easy for student assimilation and fast reference.' The RoSPA Occupational Safety & Health Journal'

About the Author

V. A. Profillidis is a Transport Consultant and Associate Professor at Democritus Thrace University, Xanthi, Greece. A consultant on many railway projects, with 25 years of research, teaching and professional experience in railway management and engineering, he has been published extensively in scientific journals and conference proceedings.

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