

Fourth edition publishing in May 2014

# Railway Management and Engineering



V.A. Profillidis, Democritus Thrace University, Greece

(Reviews of 4th edition)

*'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 López Pita, Catalonia Polytechnic University, Spain

*'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

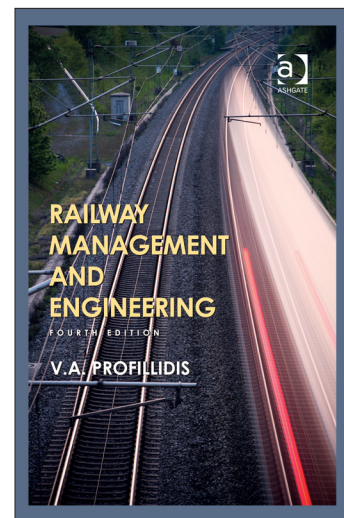
(Review of 3rd edition)

*'...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

This book aims to cover the need for a new scientific approach for railways and is useful for 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, rolling stock, and environment and safety. Each chapter 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.

**Contents:** Foreword; Preface; Railways and transport; High speeds and magnetic levitation; Policy and legislation; Forecast of rail demand; Costs and pricing; Planning and management of railways; The track system; Mechanical behavior of track; Subgrade - geotechnical and hydrogeological analysis; The rail; Sleepers - fastenings; Ballast; Transverse effects - derailment; Track layout; Switches and crossings; Laying and maintenance of track; Slab track; Train dynamics; Rolling stock; Diesel and electric traction; Signaling - safety - interoperability; Environmental effects of railways; List of references; Index.



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