

Fourth edition publishing in May 2014

Railway Management and Engineering



V.A. Profillidis, Democritus Thrace University, Greece

(Reviews of 4th edition)

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Chris Nash, University of Leeds, UK

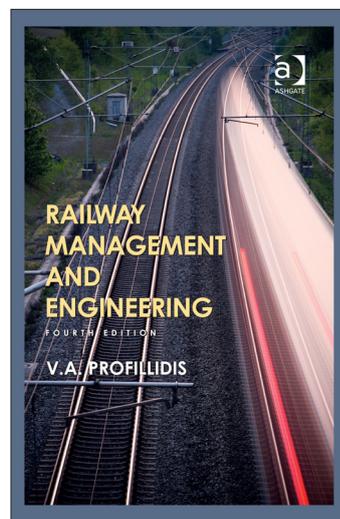
(Review of 3rd edition)

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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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