

Rail Transport

Christopher Chant

Rail Transport—Systems Approach Aleksander Śladkowski,2017-03-08 This book shows how the systems approach is employed by scientists in various countries to solve specific problems concerning railway transport. In particular, the book describes the experiences of scientists from Romania, Germany, the Czech Republic, the UK, Russia, Ukraine, Lithuania and Poland. For many of these countries there is a problem with the historical differences between the railways. In particular, there are railways with different rail gauges, with different signaling and communication systems, with different energy supplies and, finally, with different political systems, which are reflected in the different approaches to the management of railway economies. The book's content is divided into two main parts, the first of which provides a systematic analysis of individual means of providing and maintaining rail transport. In turn, the second part addresses infrastructure and management development, with particular attention to security issues. Though primarily written for professionals involved in various problems concerning railway transport, the book will also benefit manufacturers, railway technical staff, managers, and students with transport specialties, as well as a wide range of readers interested in learning more about the current state of transport in different countries.

The World's Railroads Christopher Chant,2000 Although the origins of the train concept are to be found in the Middle Ages, and the use of steam power for locomotives emerged in the Industrial Revolution of the 18th century, the train really came of age in the Victorian era of the 19th century. At this time there was an explosion of technical ideas, and this combined with greater national wealth and a rapidly changing social and economic climate to spur a railway boom. Railroad lines spread over every part of the world where there was a social and economic advantage to be gained, and there was an extraordinarily rapid development in the speed and capacity of trains operating on these lines.

Freight Rail Transportation Elizabeth Pinkston,2006

The World's Railways Christopher Chant,John Moore,2007 Covering the history and development of the world's rail transport, this text covers the early pioneers, locomotives, passenger trains, freight by rail, famous trains of the 20th century, rapid transit systems and the decline of steam, and high-speed trains.

Railway Transportation Systems Christos N. Pyrgidis,2016-04-21 Incorporates More Than 25 Years of Research and ExperienceRailway Transportation Systems: Design, Construction and Operation presents a comprehensive overview of railway passenger and freight transport systems, from design through to construction and operation. It covers the range of railway passenger systems, from conventional and high speed inter

Sustainable Rail Transport Marin Marinov,Janene Piip,2019-07-24 This volume presents a collection of rail orientated research articles, covering a variety of topics on rail operations research and management of rail systems as well as innovation, particularly focusing on sustainability aspects. The material consists of the most recent research work of the authors. The authorship is international, which makes it an interesting read for rail academics and professionals around the world. Although the material has a rail research focus the material is also excellent for preparation and delivery of rail, transport and logistics orientated courses and programmes. The target audience primarily comprises research experts in transport research, but the book may also be beneficial for graduate students alike.

Rail Transport Alison Hideki,2018-06-01 Trains transport freight and people between many cities and towns, and they provide important transport within cities. Read about early rail vehicles in Australia and the different ways they were powered. Find out about the huge job of building railways across the continent. Learn about the jobs people do on trains and at stations today, and what trains might be like in the future.

From Rail to Road and Back Again? Prof Dr Ralf Roth,Prof Dr Colin Divall,2015-02-28 In this volume, the mutual interdependence between road and rail transport is investigated, providing a fascinating reappraisal of the complex and shifting nature of European transportation over the last hundred years. The first half of the collection examines how railway companies reacted to increasing competition from road transport. The second part focuses on road mobility, a key success story of the twentieth century.

International Rail Transport Sir Ralph Lewis Wedgwood,J. E. Wheeler,1946

Sustainable Railway Futures Becky P.Y. Loo,Claude Comtois,2016-03-03 Revitalizing railways as a major sustainable transport mode in modern societies faces many issues and challenges. This in-depth overview places the importance of railways in the wider context of comprehensive sustainability, which encompasses sustainable development, social and economic equity and community livability. Some scholars have described the 21st century as a period of renaissance for railways and suggest this transport mode can fulfil people's desire for high mobility with low negative environmental, social, economic and financial impacts. In light of these new expectations for railways, in both passenger and freight transport worldwide, this book offers the latest research insights on the renewed interest about railway expansions and their wide-ranging environmental, socio-economic and even political implications.

Sustainable Rail Transport 4 Marin Marinov,Janene Piip,2021-12-16 This book offers a timely collection of articles on innovative research and developments in the vast field of rail transport, including rail operations, management, economics, vehicles interior design and sustainable infrastructure. It addresses academics and professionals specializing in railway transport analysis, innovation, systems design and new technology. Continuing on the tradition of the previous volumes, the book reports on innovative solutions for energy saving, noise reduction and baggage handling. It elaborates on the implementation of digital technologies and discusses sustainable rail operations along transport corridors. The concept of hyperloop is also discussed as a possible transport mode of the future. All the contributions were selected through an internal competition and a double-blinded peer review process organized by the RailUniNet members

Sustainable Rail Transport Anna Fraszczyk,Marin Marinov,2018-06-19 These conference proceedings include a collection of articles presented at the RailExchange conference in October 2017 at Newcastle University, UK. They will be useful for researchers in developing countries looking for opportunities of knowledge exchange. The RailExchange project aimed to develop sustainable railway education in Thailand, via international partnerships and industry collaborations based around stakeholders' expertise and experiences. It involved staff exchange (academics and researchers) between Mahidol and Newcastle University for joint research and curriculum development and also organizing railway conferences and workshops in both Thailand and the UK. The papers published here focus on rail-related issues and present a perspective of a widely understood 'exchange' in academia and industry environments. 'Exchange' is perceived as rail knowledge exchange between partners, rail staff exchange between academia and/or industry, research exchange between teams, student-lecturer knowledge exchange, academia-industry collaboration, etc. In addition, more general rail-related papers are also included.

Trains Unlimited in the 21st Century Tim Fischer,2011-08-01 An entertaining and illuminating journey along the world's railways, past, present and future, by the host of the ABC's hugely popular Local Radio series, THE GREAT TRAIN SHOW. ABC Local Radio's hugely successful podcast series tHE GREAt tRAIN SHOW unearthed thousands of train enthusiasts across the country. Hosted by former deputy PM and renowned train obsessive tim Fischer, the series covered such topics as the restoration of locomotives, childhood train memories, the importance of rail during wartime, and travel on the trans-Siberian railway. tRAINS UNLIMItED continues this entertaining and illuminating journey along the world's railways. It is about the history, excitement and romance of rail, including the twelve best rail experiences in the world, and it explores the future potential of rail - with unequalled energy efficiencies and strong environmental credentials, tim makes a compelling case for an even greater role for rail transport in the 21st century and beyond. As wide-ranging, authoritative, fascinating and quirky as the radio program, tRAINS UNLIMItED is sure to delight all train enthusiasts and interested general readers alike. All aboard!

Railways Chris Nash,2002 Reproductions of 28 articles published between 1938 and 1998, but mostly in the 1980s and 1990s, were selected to cover issues thought important in understanding the economic, commercial, and policy analysis of rail transport in industrialized countries. Engineering and operational issues are not covered. Despite the title of the series, the articles most widely considered classic are not included, especially when a more recent paper covers the same issues to greater advantage. Little known papers are also included if deemed to make an important contribution to the present day analysis. The sections cover costs and productivity, pricing, regulation and privatization, economic rail demand models, disaggregate choice modelling, and investment. There is no subject index. Annotation copyrighted by Book News, Inc., Portland, OR

The Rail Freight Challenge for Emerging Economies Bernard Aritua,2019-01-18 This report captures ways in which policy makers and senior officials in railway organizations from emerging economies can accelerate modal shift to rail. Such officials, as well as the general public, aspire for more freight to be moved by rail. The environmental and societal benefits of such a shift are compelling. And yet investment in railways is often not followed by a corresponding increase in freight moved by rail. This report highlights the fact that, in a world of changing global supply chains and logistics, the approach to regaining modal share needs to be different. The expectation that lower cost and efficient rail service will automatically lead to modal shift from road to rail has not been a reality in most emerging economies. Modern railways focus on understanding the logistics of targeted freight and positioning rail transport services as part of an overall logistics system aimed at meeting the needs of customers.

The Theory and Method of Design and Optimization for Railway Intelligent Transportation Systems (RITS) Wang Zhou,Jia Li-min,2011 This book explains the theory and methods of system optimization design for railway intelligent transportation systems (RITS), which optimizes RITS total performance by decreasing the difficulty and cost of system development and increasing the system efficiency. Readers will understand key concepts of RITS and the latest research relevant to China and other countries where RITSs have been developed. The book is suitable for university scholars in the field of railway transportation.

Metropolitan Railways William D. Middleton,2003 Metropolitan Railways is a large-scale, illustrated volume that deals with the growth and development of urban rail transit systems in North America.

Light Rail Transit Systems Rob van der Bijl,Niels van Oort,Bert Bukman,2018-06-29 Light Rail Transit Systems: 61 Lessons in Sustainable Urban Development shows how to design and operate light rail to maximize its social benefits. Readers will learn how to understand the value of light rail and tactics on its effective integration into communities. It uses strong supporting evidence and theory drawn from the author's team and their extensive experience in developing new light rail systems. The book uses numerous case studies to demonstrate how key concepts can bridge the geographic limitations inherent in many transit-related discussions. In addition, users will learn how to develop important relationships with local decision-makers and communities. Presents applied research by experienced practitioners and academic researchers Draws on more than 50 cases from Europe, the Middle East, the UK and US Incorporates five themes on why it's important to invest in light rail, including effective mobility, and for an efficient city, economy, environment and equity Includes a checklist for planning public transport projects

Stalinism and Soviet Rail Transport, 1928-41 E. A. Rees,1995-01-12 This work provides an in-depth case-study of decision-making in the Soviet Union in the Stalin era. It focuses on the development of rail transport policy, upon which the entire economy as well as the country's defence were so crucially dependent. It analyses the role of institutional lobbies in shaping policy, and sheds new light on the Stakhanovite movement, and analyses for the first time the impact of the Great Purges on the railways. The work provides a critical examination of the adequacy of existing conceptualisations of the Stalinist state.

Railway Transportation S. Ponnuswamy,2016 Covers various facets of rail transport and its development starting from its origin upto the present stage of bullet trains and surveys, design and construction of new lines including route planning and standards. The book covers in detail the different characteristics of the railways' infrastructure. Coverage includes in detail all their maintenance requirements. As a special feature, it includes the basics of different systems of train operation, their planning, implementation, and monitoring, including the safety aspects and disaster management. It briefly covers the different forms of administration of a railway system and its finances including details of modernization on railways, metro rail planning and construction and high speed railways.

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