

Ground Vehicle Engineering Series

Design and Simulation of Rail Vehicles



Maksym Spiriyagin
Colin Cole - Yan Quan Sun
Mitchell McClanachan
Valentyn Spiriyagin - Tim McSweeney



CRC Press
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Annelies Wilder-Smith

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Design and Simulation of Rail Vehicles Maksym Spiriyagin, Colin Cole, Yan Quan Sun, Mitchell McClanachan, Valentyn Spiriyagin, Tim McSweeney, 2014-05-13 Keep Up with Advancements in the Field of Rail Vehicle Design A thorough understanding of the issues that affect dynamic performance as well as more inventive methods for controlling rail vehicle dynamics is needed to meet the demands for safer rail vehicles with higher speed and loads *Design and Simulation of Rail Vehicles* examines the field of *Handbook of Railway Vehicle Dynamics, Second Edition* Simon Iwnicki, Maksym Spiriyagin, Colin Cole, Tim McSweeney, 2019-11-14 *Handbook of Railway Vehicle Dynamics Second Edition* provides expanded fully updated coverage of railway vehicle dynamics. With chapters by international experts this work surveys the main areas of rolling stock and locomotive dynamics. Through mathematical analysis and numerous practical examples it builds a deep understanding of the wheel rail interface, suspension and suspension component design, simulation and testing of electrical and mechanical systems and interaction with the surrounding infrastructure and noise and vibration. Topics added in the Second Edition include magnetic levitation, rail vehicle aerodynamics and advances in traction and braking for full trains and individual vehicles

[The Dynamics of Vehicles on Roads and Tracks](#) Martin Rosenberger, Manfred Plöchl, Klaus Six, Johannes Edelmann, 2016-03-30 The IAVSD Symposium is the leading international conference in the field of ground vehicle dynamics bringing together scientists and engineers from academia and industry. The biennial IAVSD symposia have been held in internationally renowned locations. In 2015 the 24th Symposium of the International Association for Vehicle System Dynamics IAVSD [Rail Vehicle Mechatronics](#) Maksym Spiriyagin, Stefano Bruni, Christopher Bosomworth, Peter Wolfs, Colin Cole, 2021-12-08 This unique and up to date work surveys the use of mechatronics in rail vehicles notably traction, braking, communications, data sharing and control. The results include improved safety, comfort and fuel efficiency. Mechatronic systems are a key element in modern rail vehicle design and operation. Starting with an overview of mechatronic theory the book covers such topics as modeling of mechanical and electrical systems for rail vehicles, open and closed loop control systems, sensors, actuators and microprocessors. Modern simulation techniques and examples are included throughout the book. Numerical experiments and developed models for railway application are presented and explained. Case studies are used alongside practical examples to ensure that the reader can apply mechatronic theory to real world conditions. These case studies include modeling of a hybrid locomotive and simplified models of railway vehicle lateral dynamics for suspension control studies. *Rail Vehicle Mechatronics* provides current and in depth content for design engineers, operations managers, systems engineers and technical consultants working with freight, passenger and urban transit railway systems worldwide.

International Encyclopedia of Transportation, 2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction. This is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and

the need to provide novel approaches to understanding its impacts. This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local, national and international levels. Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering, operations research, economics, geography and sociology in order to understand the changes taking place. Emphasising the interaction between these different aspects of research, it offers new solutions to modern day problems related to transportation. Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives. Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines, different parts of the world and different social perspectives. The nine sections are structured around the following themes: Transport Modes, Freight Transport and Logistics, Transport Safety and Security, Transport Economics, Traffic Management, Transport Modelling and Data Management, Transport Policy and Planning, Transport Psychology, Sustainability and Health Issues in Transportation. Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges. The end result is a reference work that offers researchers and practitioners new approaches, new ways of thinking and novel solutions to problems. All encompassing and expertly authored, this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world. Provides a forward looking and integrated approach to transportation. Updated with future technological impacts such as self driving vehicles, cyber physical systems and big data analytics. Includes comprehensive coverage. Presents a worldwide approach including sets of comparative studies and applications.

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Maksym Spiriyagin, Stefano Bruni, Christopher Bosomworth, Peter Wolfs, Colin Cole, 2021-12-08. This unique and up to date work surveys the use of mechatronics in rail vehicles, notably traction, braking, communications, data sharing and control. The results include improved safety, comfort and fuel efficiency. Mechatronic systems are a key element in modern rail vehicle design and operation. Starting with an overview of mechatronic theory, the book covers such topics as modeling of mechanical and electrical systems for rail vehicles, open and closed loop control systems, sensors, actuators and microprocessors. Modern simulation techniques and examples are included throughout the book. Numerical experiments and developed models for railway application are presented and explained. Case studies are used alongside practical examples to ensure that the reader can apply mechatronic theory to real world conditions. These case studies include modeling of a hybrid locomotive and simplified models of railway vehicle lateral dynamics for suspension control studies. Rail Vehicle Mechatronics provides current and in depth content for design engineers, operations managers, systems engineers and technical consultants working with freight, passenger and urban transit railway systems worldwide. Applied Mechanics Rail Transportation Symposium -

1988 American Society of Mechanical Engineers. Winter Annual Meeting, 1988 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994 Transportation Systems 1997 (TS'97) Markos Papageorgiou, A. D. Pouliezos, 1997 This Symposium was the 8th in the series of planned IFAC Symposia on Transportation Systems The International Program Committee received over 400 papers from the international transportation community Road Traffic was the most popular subject with over 190 abstracts followed by Intermodal and Freight Public Transport Rail and Maritime Transport and Air Traffic Transportation of people and goods has been necessary for society for thousands of years In modern times transportation by road rail air and sea has become a fundamental component of human activity A great number of technical economic environmental and organizational problems related to traffic and transportation have been ingeniously resolved in the past and perhaps an even higher number of problems will have to be overcome in the future Recently it has been realized more and more that problems connected to transportation traffic congestion and delay cannot be resolved by simply extending the available infrastructure Efficient use of existing facilities is a feasible alternative which becomes possible by the application of concepts and methods provided by systems and information theory Besides recent developments in digital computer and communication technology provide the necessary practical tools for satisfactory and cheap solutions The papers in this volume reflect these ideas and the current diversity and dynamism of the field as a whole **Paper**, 1987

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