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Shock-wave Processes Modelling on Railway Vehicles Using a Scaled Model Utilizing Viscoelastic Properties Alexander Kazakoff, Boycho Marinov. Proceeding of the Bulgarian Academy of Sciences, January 2013, Prof. Marin Drinov Academic Publishing House; DOI: 10.7546/cr-2013-66-1-13101331-14

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Shock Processes on Railway Vehicles with One-Stage Spring Suspension Boycho Marinov Received June 2012 Abstract The influence of the shock processes on railway vehicles with one-stage spring suspension is analyzed in this paper. These processes are excited in normal operation. Kinetic energy is lost as a result of the shock loads.

~~Shock Processes on Railway Vehicles with One Stage Spring ...~~

The presented book analyses the shock loads on the railway vehicles. For this purpose the system state is studied at the end of the shock-wave process. Expressions determining motion kinematical components and the free damped vibrations are derived. Dependences describing energy losses are proposed. An optimization task is also solved.

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The influence of the shock processes on railway vehicles with one-stage spring suspension is analyzed in this paper. These processes are excited in normal operation. Kinetic energy is lost as a result of the shock loads. Expressions to calculate the loss of the kinetic energy of the different links as well as of the railway vehicle as a whole are derived.

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The influence of the shock processes on railway vehicles with one-stage spring suspension is analyzed in this paper. These processes are excited in normal operation. Kinetic energy is lost as a result of the shock loads. Expressions are derived to calculate the kinetic energy of the different units and of the railway vehicle as a whole.

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Generic Hazard List for Railway Systems Martin Pope 1, Jörn Drewes<sup>2</sup>, Jörg May<sup>2</sup> 1UIC Euro-Interlocking Project, Zurich, Switzerland, 2Institute for Traffic Safety and Automation Engineering, Technical University of Brunswick, Braunschweig, Germany Abstract Safety requirements for railway systems must be developed in consideration of the potential hazards,

~~Generic Hazard List for Railway Systems~~

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Marinov B., Shock-Wave Processes on Railway Vehicles with Two-Stage Spring Suspension. Free Damped Vibrations in Consequence of the Shock-Wave Processes, Compt. Rend. De l'Acad. Bulgare des Sciences, Vol. 64, No 3, 2011, (ISSN 1310-1331). Marinov B., Shock-Wave Processes on Railway Vehicles with Two-Stage Spring Suspension.

~~Institute of Mechanics - Boycho Ivanov Marinov~~

vehicles. Research works in this field were collected and compiled nicely in the famous book "Shock Wave Reflection Phenomena" by Prof. G. Ben-Dor in Ben-Gurion University of Negev, Israel. The course is planned based mainly on this book and other recent works being pursued in this area. The recent efforts in India to indigenously develop

~~Shockwave Reflection Phenomena~~

Marinov B., Shock-Wave Processes on Railway Vehicles with Two-Stage Spring Suspension. Free Damped Vibrations in Consequence of the Shock-Wave Processes, Compt. Rend. De l'Acad. Bulgare des Sciences, Vol. 64, No 3, 2011, (ISSN 1310-1331).

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Welding of railway vehicles and components under EN 15085-2 and V95/5 Welding is generally regarded as a very specific process whose outcome cannot always be verified by testing after its completion. The quality of the weld cannot be ensured by testing the finished product, but it can be ensured by testing the welding process.

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In fact, correct capturing and detection of shock waves are important since shock waves have the following influences: (1) causing loss of total pressure, which may be a concern related to scramjet engine performance, (2) providing lift for wave-rider configuration, as the oblique shock wave at lower surface of the vehicle can produce high pressure to generate lift, (3) leading to wave drag of high-speed vehicle which is harmful to vehicle performance, (4) inducing severe pressure load and ...

~~Shock wave - Wikipedia~~

2. The process Railway Group Standard GE/RT8270 Issue 2 - Assessment of Compatibility of Rolling Stock and Infrastructure details the requirements and

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responsibilities the operator (proposer of the change) must meet before vehicles are accepted for operation on our infrastructure.

~~Introducing new vehicles or change to vehicles — Network Rail~~

In order to achieve proficient combustion with the present technologies, the flow through an aircraft intake operating at supersonic and hypersonic Mach numbers must be decelerated to a low-subsonic level before entering the combustion chamber. High-speed intakes are generally designed to act as a flow compressor even in the absence of mechanical compressors. The reduction in flow velocity is ...

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Annotation Leading researchers provide a cohesive treatment of the complex issues in high-speed propulsion, as well as introductions to the current capabilities for addressing several fundamental aspects of high-speed vehicle propulsion development. Includes more than 380 references, 290 figures and tables, and 185 equations.

This book brings together papers from the Fourth International Conference on Waste Management and the Environment and will be of interest to environmental engineers, local authority representatives, waste disposal experts, research scientists in the area of waste management, civil engineers and chemical engineers.

The Handbook of Shock Waves contains a comprehensive, structured coverage of research topics related to shock wave phenomena including shock waves in gases, liquids, solids, and space. Shock waves represent an extremely important physical phenomena which appears to be of special practical importance in three major fields: compressible flow (aerodynamics), materials science, and astrophysics. Shock waves comprise a phenomenon that occurs when pressure builds to force a reaction, i.e. sonic boom that occurs when a jet breaks the speed of sound. This Handbook contains experimental, theoretical, and numerical results which never

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before appeared under one cover; the first handbook of its kind. The Handbook of Shock Waves is intended for researchers and engineers active in shock wave related fields. Additionally, R&D establishments, applied science & research laboratories and scientific and engineering libraries both in universities and government institutions. As well as, undergraduate and graduate students in fluid mechanics, gas dynamics, and physics. Key Features \* Ben-Dor is known as one of the founders of the field of shock waves \* Covers a broad spectrum of shock wave research topics \* Provides a comprehensive description of various shock wave related subjects \* First handbook ever to include under one separate cover: experimental, theoretical, and numerical results

Recently, there have been significant advances in the fields of high-enthalpy hypersonic flows, high-temperature gas physics, and chemistry shock propagation in various media, industrial and medical applications of shock waves, and shock-tube technology. This series contains all the papers and lectures of the 19th International Symposium on Shock Waves held in Marseille in 1993. They are published in four topical volumes, each containing papers on related topics, and preceded by an overview written by a leading international expert. The volumes may be purchased independently.

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 rail vehicle design, maintenance, and modification, as well as performance issues related to these types of vehicles. This text analyzes rail vehicle design issues and dynamic responses, describes the design and features of rail vehicles, and introduces methods that address the operational conditions of this complex system. Progresses from Basic Concepts and Terminology to Detailed Explanations and Techniques Focused on both non-powered and powered rail vehicles—freight and passenger rolling stock, locomotives, and self-powered vehicles used for public transport—this book introduces the problems involved in designing and modeling all types of rail vehicles. It explores the applications of vehicle dynamics, train operations, and track infrastructure maintenance. It introduces the fundamentals of locomotive design, multibody dynamics, and longitudinal train dynamics, and discusses co-simulation techniques. It also highlights recent advances in rail vehicle design, and contains applicable standards and acceptance tests from around the world. □ Includes multidisciplinary simulation approaches □ Contains an understanding of rail vehicle design and simulation techniques □ Establishes the connection between theory and many simulation examples □ Presents simple to advanced rail vehicle design and simulation methodologies Design and Simulation of Rail Vehicles serves as an introductory text for graduate or senior undergraduate students, and as a reference for practicing engineers and researchers investigating performance issues related to these types of vehicles.