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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 Drewes2, Jörg May2 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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~~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

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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 responsibilities the operator

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(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 ...

Lightness, efficiency, durability and economic as well as ecological viability are key attributes required from materials today. In the transport industry, the performance needs are felt exceptionally strongly. This handbook and ready reference covers the use of structural materials throughout this industry, particularly for the road, air and rail sectors. A strong focus is placed on the latest developments in materials engineering. The authors present new insights and trends, providing firsthand information from the perspective of universities, Fraunhofer and independent research institutes, aerospace and automotive companies and suppliers. Arranged into parts to aid the readers in finding the information relevant to their needs: \* Metals \* Polymers \* Composites \* Cellular Materials \* Modeling and Simulation \* Higher Level Trends

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Ending poverty and stabilizing climate change will be two unprecedented global achievements and two major steps toward sustainable development. But the two objectives cannot be considered in isolation: they need to be jointly tackled through an integrated strategy. This report brings together those two objectives and explores how they can more easily be achieved if considered together. It examines the potential impact of climate change and climate policies on poverty reduction. It also provides guidance on how to create a “win-win” situation so that climate change policies contribute to poverty reduction and poverty-reduction policies contribute to climate change mitigation and resilience building. The key finding of the report is that climate change represents a significant obstacle to the sustained eradication of poverty, but future impacts on poverty are determined by policy choices: rapid, inclusive, and climate-informed development can prevent most short-term impacts whereas immediate pro-poor, emissions-reduction policies can drastically limit long-term ones.

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.



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For buildings and factories located near railway or subway lines, the vibrations caused by the moving trains may be annoying to the residents or detrimental to the high-precision production lines. Compared with the boundary element method (BEM) for solving the half-space problems, this book presents finite/infinite element method (FIEM).

This book focuses on the non-traditional branches of physics and mechanics of shock waves that have arisen recently in connection with the intensive study of these waves in a wide variety of phenomena - from nuclear matter to clusters of galaxies. The book is devoted to the various physical phenomena and properties of intense shock waves. The author addresses methods of generation, diagnostics, as well as theoretical methods for describing shock waves at extremely high pressures and temperatures in laboratory and quasi-laboratory conditions. The state of materials with high energy density generated by shock wave compression is discussed. In addition, the book aims to systematize, generalize, and describe from a universal viewpoint the extensive theoretical and experimental material on the physics of high energy densities - the physics and mechanics of intense shock waves. The book is based on lectures delivered by the author at the Moscow Institute of Physics and Technology, the Higher School of Physics of Rosatom State Nuclear Energy Corporation, as well as overviews presented at

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many scientific conferences and symposia. It is useful to a wide range of researchers in natural sciences, giving them access to original works and allowing them to navigate the fascinating problems of the modern science of intense shock waves.

This acoustics handbook for mechanical and architectural applications is a translation of the German standard work on the subject. It not only describes the state of art of engineering acoustics but also gives practical help to engineers for solving acoustic problems. It deals with the origin, the transmission and the methods of abatement of air-borne and structure-borne sound of different kinds, from traffic to machinery and flow induced sound.

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