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Alexander Kazakoff, Boycho Marinov.  
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Drinov Academic Publishing House; DOI:  
10.7546/cr-2013-66-1-13101331-14

~~Shock-wave Processes Modelling on  
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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

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## ~~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

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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.

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

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

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consideration of the potential hazards,

~~Generic Hazard List for Railway Systems~~  
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Shock-wave processes on railway vehicles. An optimization. Thermodynamics . VDM Verlag Dr. Müller (2011-04-29) - ISBN-13: 978-3-639-32902-5 ...

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propagation"

~~Vehicles~~ **Boycho Marinov**  
Marinov B., Shock-Wave Processes on  
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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

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~~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).

~~www.davidpublisher.com~~

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.

~~Welding of railway vehicles and~~

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~~components under EN 15085 ...~~

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

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Boycho Marinov

~~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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