

Shock Wave Processes Railway Vehicles Boycho Marinov

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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 sus-pension is analyzed in this paper. These processes are excited in normal operation. Kinetic energy is lost as a result of the shock loads.

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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 IUIIC 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,

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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

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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 (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 ...