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New Trends in Mechanics and Transport; Preface; Table of Contents; Chaotic Zones in Triple Pendulum Dynamics Observed Experimentally and Numerically; Geometric Instability vs. Lyapunov's Exponents of a Double Physical Pendulum; Dynamics of Continuous Systems Subjected to Traveling Loads; Interface Conditions and Loss of Stability for Stepped Columns; Decomposition of Symptom Observation Matrix and its Optimization in Vibration Condition Monitoring of Machines; Application of Computer Simulation Methods for Running Safety Assessment of Railway Vehicles in Example of Freight Cars Mechanics of Track Structure with Y-Shaped Steel Sleepers in Sharp CurvesWave Propagation Modelling in Composite Plates ; A Dynamic Friction Law Describing Heat and Wear in Contact Zones; On Pain Detection in Multibody Systems; Simulation of Guided Waves Propagation in Axial Transmission Measurements in Human Radius; Modal Analysis of Bridges for the SHM Purposes; An Internal Variable Update Procedure for the Treatment of Inelastic Material Behavior within an ALE-Description of Rolling Contact; Keywords Index; Authors Index

Sommario/riassunto

Nowadays, one of the most rapidly growing sectors of industry is that of the infrastructure and vehicles of transportation systems. This discipline needs new, innovative and economically proven initiatives. The domain of transport is an interdisciplinary one which brings together many different scientific and engineering strands. The synergy between mechanics and transportation science offers the possibility of finding new and effective solutions to design, manufacturing and servicing problems. Due to globalization of the market-place, international cooperation in applied research is very frui