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Topics

Plasticity, Fracture, and Damage Mechanics Mechanics of Nanomaterials Fluid-Structure Interaction Damage Identification and Non Destructive Evaluation (NDE) Computational and Experimental Mechanics Geomechanics and Mechanics of Granular Materials Flows in Porous Media Impact and Multibody Dynamics Nonlinear Dynamics, Structural Dynamics, and Control Dynamic Instability and Buckling Vibrations, Acoustics, and Noise Control Manufacturing Processes Advanced Materials and Smart Structures Micro Electromechanically Systems (MEMS) Mechatronics Transport Phenomena in Micro/Nanoscale Aerodynamics and Aeroelasticity Computational Fluid Dynamics (CFD) v Turbulence and Multiphase Flows Biomechanics and Biomaterials v Surface Engineering and Contact Mechanics Heat and Mass Transfer Compressible Flows Applications

Articles:

Numerical Simulation of Workpiece Thermal Profile in Plasma Arc Cutting (PAC) Process

Authors: Ali Moarrefzadeh

Effect of Transition Stresses in a Disc Having Variable Thickness and Poisson's Ratio Subjected to Internal Pressure

Authors: Pankaj Thakur

Hysteresis Identification Methodology for the SAS Rotational MR Damper

Authors: Y. Iskandarani, G. A. Moslatt, E. Myklebust, J. P. Kolberg, L. L. Solberg, H. R. Karimi

Numerical-Analytical BEM for Elliptic Problems

Authors: V. P. Fedotov

Developing an Innovative Design Processes of Su-Field Modeling

Authors: Chang-Tzuoh Wu, Chang-Shiann Wu, Hung-Jen Yang, Hsueh-Chih Lin

Effects of Turbulence Model in Computational Fluid Dynamics of Horizontal Axis Wind Turbine Aerodynamic

Authors: Kamyar Mansour, Mohsen Yahyazade

Implementation of Numerical Non-Standard Discretization Methods on a Nonlinear Mechanical System

Authors: Patete Anna, Velasco Maria, Rodriguez-Millan Jesus

<u>Formulation of Elastodynamic Infinite Elements for Dynamic Soil-Structure Interaction</u>

Authors: Konstantin Kazakov

Ahead Prediction of Kinematics of Vehicles under Various Collision Circumstances by Application of ARMAX Autoregressive Model

Authors: Witold Pawlus, Hamid Reza Karimi, Kjell G. Robbersmyr

The Nature of Instabilities in Blocked Media and Seismological Law of Gutenberg-Richter

Authors: B. P. Sibiryakov, B. I. Prilous, A. V. Kopeykin

Numerical Simulation Analysis for Thermal Optimization of Heat Affected Zone (HAZ) in GMAW Process

Authors: Ali Moarrefzadeh

Dynamic Analysis of Cracks Running at a Constant Velocity in a Strip

Authors: Jia-Yen Huang

<u>Parallel-Sparse Symmetrical/Unsymmetrical Finite Element Domain Decomposition Solver with Multi-</u> Point Constraints for Structural/Acoustic Analysis

Authors: Siroj Tungkahotara, Willie R. Watson, Duc T. Nguyen, Subramaniam D. Rajan

Vibration Response of Sandwich Plate Under Low-Velocity Impact Loading

Authors: M. Wali, M. Abdennadher, T. Fakhfakh, M. Haddar

<u>Dynamic Behavior of a Valve Train System in Presence of Camshaft Errors</u>

Authors: M. Tounsi, F. Chaari, L. Walha, T. Fakhfakh, M. Haddar

Mitigation Assessment of Passive Seismic Protection

Authors: Ioana Ladar, O. Prodan, P. Alexa