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Nota di contenuto	Applied Mechanics and Materials III; Preface and Conference Organization; Table of Contents; Chapter 1: Solid Mechanics and its Applications; Analysis of the Crack of Heavy Dump Truck Cargo Body Floor; Coil Failure Mode Analysis for Fiber Carbon Composite Core Rod Used in Overhead Stranded Wires; Experimental Method of Slip and Surface Temperatures for a Silicone-Oil Fan Clutch; Influence of Geometrical Features of Meso-Defects on Damage Evolution of Metal Structure; Numerical Study on the Anti-Ballistic Properties of Metal Encapsulating Ceramic Composite Armors Parametric Selection of Dynamic Vibration Absorbers for Resonant Suppression of Structure-Absorber Systems Research on Stress-Free Rail Temperature Design of Wubei-Xiaohuangshan Railway; Torsion Test of Fiber Carbon Composite Core Rod Used in Overhead Stranded Wires; Theoretical Research of Vertical Crack Propagation in Overlaid Cement Concrete Pavement; Neimark-Sacker Bifurcation of Rolling Bearing System with Fault in Outer Ring; Study on Mechanical Response Changes of Pavement to Aircraft Loads with Different Landing Gear Configurations

Study on Numerical Model of the Collision Effect between River Ice and Flexible High Pier; Analysis and Design of Lifting Pole Made of Carbon-Fiber Reinforced Resin Matrix Composites; FEM Modeling of End-Plate Assembling Bolt Connections of CHS Profiles; Numerical Simulation and Analysis of Hydraulic Torque Converter Base on Finite Element; Quasi-Static Characteristics Analysis for Barge Bow Structure Based on Experimental and FEA Study; Large Equipment Hoisting Balance Beam Structure Optimization; Fatigue Strength Study on Radial Bogie Vice Frame Based on Finite Element Analysis
Experimental Study on Vertical Stiffness of WJ-8 Fastener for High-Speed Railway; Application of Orthogonal Experimental Method in the Sealing Design of a Bolted Flange Connections; Chapter 2: Fluid Mechanics and its Applications; A New Approach to Calculate Shutdown and Restart Pressure of Waxy Crude Pipeline; Analysis of Loads and Response on Flexible Riser under the Combined Effects of Wave and Current; Difference Schemes for Three Kinds of Nonlinear Flow Model in Low Permeability Porous Media; Experimental Investigation of Solid Attitude Control System Using Proportional Pintle Thrusters
Initial-Boundary Value Problem on Unsteady Flows in a Canal; Numerical Simulation of Flow Field in the Tundish with Two Outlets; Numerical Simulations and Experiments on Changes in Erythrocyte Morphology under Continue Flow Ventricular Assisted Devices; Study on the Design of Wetland Based on Hydrodynamic Condition - A Case of Candle Lake Wetland at Qingxiu Mountain Scenic Spot in Nanning City; The Influence of Characterization of Metallic Gasket Rough Surface on Gas Sealing Performance in Seal Structure; The Kinematic Analysis of Double Water Jets Ship
3D Numerical Simulation and Experimental Analysis of Spillway Tunnel

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3 rd International Conference on Applied Mechanics and Materials (ICAMM 2014), November 15-16, 2014, Shenzhen, China. The 191 papers are grouped as follows: Chapter 1: Solid Mechanics and its Applications; Chapter 2: Fluid Mechanics and its Applications; Chapter 3: Computational Mechanics and its Applications; Chapter 4: Mechanics of Explosion and Technologies of Blasting; Chapter 5: Structural Mechanics, Geotechnical Mechanics and Infrastructure Construction; Chapter 6: Building Materials; Chapter 7: Composites; Chapter 8: Micro/Nano Ma
