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Nota di bibliografia	Includes bibliographical references and index.
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
