

1. Record Nr.	UNINA9910807844903321
Titolo	Applied mechanics, fluid and solid mechanics : selected, peer reviewed papers from the 2013 International Conference on Applied Mechanics, Fluid and Solid Mechanics (AMFSM 2013), November 15-16, 2013, Singapore // edited by Jin Tan
Pubbl/distr/stampa	Zurich, Switzerland : , : Trans Tech Publications, , 2014 ©2014
ISBN	3-03826-348-6
Descrizione fisica	1 online resource (386 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 871
Altri autori (Persone)	TanJin
Disciplina	620.1
Soggetti	Mechanics, Applied
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Applied Mechanics, Fluid and Solid Mechanics; Preface and Organization Committees; Table of Contents; Chapter 1: Applied Mechanics, Fluid and Solid Mechanics; Modified Building Shapes for Reducing Vibrations of Tall Building; Interference Effect Tall Building to Fluctuations Wind Load; Second-Order Convergence and Unconditional Stability on Crank-Nicolson Scheme for Burgers' Equation; Risk Assessment Method and Protection Goals of High Concrete Gravity Dam Subjected to Far-Field Underwater Nuclear Explosion; Three-Dimensional Hydrodynamic Lubrication Analysis of Cylinder Liner-Piston Ring A Numerical Analysis of the Interaction between the Piston Oil-Film and the Elastic Structure in an Internal Combustion Engine Influence Analysis of the Vibration Frequency to the Dynamic Response of Deepwater Drilling Casing String; Parametric Study of Air Flow Shape in Saddleback Double-Cladding Ventilated Roof on Input Velocity; Method for Analysis of Dynamic and Strength in Internal Combustion Engine Crankshaft; Double Crossed Step-Down-Stress Accelerated Life Testing for Pneumatic Cylinder Based on Cumulative Damage Model; Crane Basic Boom Static Analysis Based on ANSYS Design and Simulation Study of a Certain Landing Gear Loading

Simulation System Research on Electrical Transmission System with Hydraulic Coupler; A Study on Penetration Characteristics Test and Analysis of Tungsten Penetrator; Comparative Study on the Reynolds Shear Stress in CTAC Drag-Reducing Flow by Experiment and DNS; Simulation of the Influence of Air Preheat Combustion on the Temperature of Propane Turbulent Flame Using Probability Density Function Approach and Eddy Dissipation Model; The Existence of Retrograde Orbits for the Four-Body Problem with Various Choices of Masses

Characteristics for a Flow Past a Circular Cylinder with Two Types of Radial Disturbances at $Re=100$ The Study on Vibration for Integral Reciprocating Compressors; DEM Study on Energy Allocation Behavior in Crushable Soils; Investigation of the Deformable Behavior of Loose and Dense Sand through DEM; The Pre-Twisted Thin-Walled Beam Element Stiffness Matrix Considering the Saint-Venant Warping Deformation; Uniform Second-Order Hybrid Schemes on Bakhvalov-Shishkin Mesh for Quasi-Linear Convection-Diffusion Problems; Thermo-Mechanical Couple Analysis of Cylinder Head Joint with Quadratic Contact

Chapter 2: Materials Science and Technology Melt Time-Temperature Treatment Affecting the Amorphous Ribbons' Properties of the HTS-42 Solder; A Study on Corrosion Wear of Cold Rolling Work Roll; Study of Wear Resistance of Sintered Powder Tool Materials; Carbide Tools with Nano-Dispersed Coating for High-Performance Cutting of Hard-to-Cut Materials; Studies on Exciting the Activity of Waste Glass Powder by Hydrothermal Activation; Tensile Properties of Untreated and Treated Long Kenaf Fiber/Polyester Composites Fracture Toughness of Treated OPEFB Filled Polymer Nanocomposites at Different Clay Loading

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 International Conference on Applied Mechanics, Fluid and Solid Mechanics (AMFSM 2013), November 15-16, 2013, Singapore. The 63 papers are grouped as follows: Chapter 1: Applied Mechanics, Fluid and Solid Mechanics; Chapter 2: Materials Science and Technology; Chapter 3: Analysis and Design of Machine Parts and Mechanisms for Industry
