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Descrizione fisica	1 online resource (1559 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volumes 915-916
Disciplina	670.42
Soggetti	Manufacturing processes Manufacturing processes - Technological innovations Materials
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	Advanced Engineering Research; Preface and Conference Organization; Table of Contents; Chapter 1: Mechanical Dynamics and Vibration; Analysis and Experiment Study of Continuous Beam Arch Composite Bridge; Analysis and Simulation of UAV Aircraft Flight Dynamics; Analysis of the Influences of Drilling Fluid Flow Velocity inside and outside the Drilling String on Drilling String Lateral Vibration Frequency; Analysis on the Bias of Seismic Ground Motion Prediction in a Shallow Stiff-Soil Site by LSSRL-1 Program Analysis on Torsional Vibration Characteristics of Turbo-Generator Units Based on Finite Element Method Based on Dynamic Simulation Optimization of CNC Cutting Parameter Database System is the Key Technology Research; Dynamic Analysis and Experimental Research of Laser Cutting Machines; Dynamic Research of a Kind of Morse CVT Input Mechanism and Parameters Optimization; Dynamics Analysis of Vertical Transferring Frame of Garbage Container; Edge Resonances of Circular Cylinders; Experimental Analysis of Dynamic Characteristic for Automatic Tensioner Impact of the Wenchuan Earthquake on Construction Index Using an

EMD-Based Event Analysis Method Modal Analysis of Crankshaft under Multi-Speed; Numerical Analysis of the Deformation Law of Deep Foundation Pit of Subway Station by FLAC3D; On the Possibility of Neglecting the Coupled-Mode Oscillations of a Single-Mass Dynamic System under Non-Steady Kinematic Excitations; Preliminary Exploration of 2-Dimensional Seismic Response Analysis for Elastic Layered Model by ABAQUS; Research on Automobile Coupled Vibration between Transmission Shaft and Drive Axle Gears
Study on Combination Method of Stochastic Load Processes The Engineering Application of New Method for Calculating Seismic Active Earth Pressure of Soil-Nailing Retaining Structures; Transfer Function Development of Uniaxial Horizontal Centrifugal Shaking Table; Two Methods for Edge Reflection Problems in Circular Cylinders; Vibration and Noise Analysis for a Motor of Pure Electric Vehicle; Verification of the Applicability of Seismic Safety Evaluation Program LSSRLI-1 in Medium Soft Soil Using Exact Solution
The Influence of Underpass on Surface Subsidence Caused by Double-Tube Shield Tunneling Dynamic Response Analysis of Composite Soil Nailed Wall under Earthquake; Study on the Ground Response Analysis for Stiff Soil; CFD Simulation Study of Gas-Liquid Flow Regimes in Inclined Wellbore; Chapter 2: Mechanical Strength; Construction of Fo Zhao Gui Dan Intercity Bridge Project in Guang Zhou; Crack Analysis of Bridge Piers of a Rail Transit Line in Guangzhou City; Finite Element Analysis and Research of Engine Connecting Rod; Finite Element Simulation Analysis on Space KX-Joint
Initial Buckling of Compressed Rectangular Panels with Variable Stiffener Sizes

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd International Forum on Mechanical and Material Engineering, (IFMME 2014), March 8-9, 2014, Zhuhai, China. The 301 papers are grouped as follows: Chapter 1: Mechanical Dynamics and Vibration, Chapter 2: Mechanical Strength, Chapter 3: Mechanical Friction, Wear and Lubrication, Chapter 4: Mechanical and Construction Design and Engineering, Chapter 5: Vehicle Engineering, Chapter 6: Robot Technology and Applications, Chapter 7: Advanced Materials, Chapter 8: Metal and Alloys, Chapter 9: Composite Materials, Chapter 10: Thin-Film Mate
