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Titolo	Modern tendencies in engineering sciences : selected, peer reviewed papers from the 2014 International Forum on Materials Processing Technology (IFMPT 2014), January 18-19, 2014, Guangzhou, China and the 2014 International Conference on Sensors, Instrument and Information Technology (ICSIIT 2014), 18-19 January, 2014, Guangzhou, China / / edited by Seung-Bok Choi and Yun-Hae Kim
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Modern Tendencies in Engineering Sciences; Preface and Conference Organization; Table of Contents; Chapter 1: Design and Engineering Solutions in the Field of Mechanical Engineering; Dynamic Analysis of Slide Vane Compressor Stator Based on Finite Element Method; Study on the Structure Design and Material Evaluation of Rural Residential Roof in Northeast China; Analysis of Gas Turbine Engines Auxiliary Power Units; Analysis of the Flow Field and Structure Optimization in Gas-Liquid-Solid Three-Phase Hydrocyclone; Dynamic Finite Element Analysis for Tapered Roller Bearings Dynamics Analysis of Drag Rope Base on Lagrange Equation Micro Electric Cars Shock Absorber Spring Nonlinear Analysis; The Comparison Mechanics Analysis of Two Simplified Models about Elevator Bearing Beam; Research on Hydro-Dynamic of Column Body Water-Entry with Six-DOF at High-Speed; Application of the Projection Pursuit Regression in Forecasting the Pressure of the Torpedo Launch Tube; Modal Comparison of Crankshaft under Multi-Speed; The Establishment and Analysis of the Radiation Noise Model of the Ventilator Enclosure; Coordinate Analysis of Articulated Needle while

Being Steered

Design and Fabrication of Model Feed Pelletizer Multi-Objective Fuzzy Optimization Design of Gear Drive; Surface Desuperheater Structure Improvement against the Cylinder Radial Cracks; The Controlling and the System Optimizing of the Rotary Motion in the Wheel-Changing Device of Light Rail; Static Structural Analysis of the Blood Pump Rotor System; Study on Design Scheme of Grass Spikes Harvesting Device to Wild Alpine Kobresia Wild Growing in Tibetan Natural Grassland; Design of Laser Ignition System for Ejection Life-Saving System Quantification and Evaluation of System Grounding and Electric Bonding Performance The Numerical Simulation for Engine Oil Filter Shell; Application of Rapid Prototyping Technology in Automobile Manufacturing Industry; Chapter 2: Engineering Solutions in Architecture and Construction; Analysis Methods of Reasonable Finished State of Space-Twisting Cable Leaning Tower Cable-Stayed Bridge; Analysis of Structure Technology and Sports Buildings Design Factors; Analysis on the Impact of the Backstays Forms on the Performance of Inclined Tower Cable-Stayed Bridge Analysis on the Development of Residential Building Energy Conservation Chaotic Threshold for Axial Loaded Beam Bridge under Moving Loads; Dynamics Simulation of Large Tower Structure Lifting Process Based on CABLE Modeling; Influence of Wave Passage Effect on Seismic Response of Truss String Structure Co-Working with its Base Frame; Blast Vibration Response of Tunnel Influenced by Confining Pressure and Surrounding Rock Type; Numerical Simulation of Frame Structure Blasting Demolition under Explosive Loading Numerical Analysis on the Failure Process of Jointed Rock under the Effect of Seepage

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 International Conference on Sensors, Instrument and Information Technology (ICSIIT 2014), 18-19 January, 2014, Guangzhou, China. The 111 papers are grouped as follows: Chapter 1: Design and Engineering Solutions in the Field of Mechanical Engineering, Chapter 2: Engineering Solutions in Architecture and Construction, Chapter 3: Sensors, Measurement Technologies, Processing of Signals and Data Processing, Chapter 4: Applied Computational Algorithms and Procedures in Engineering Practice, Chapter 5: Mechatronics, Control and Automation,
