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Autore	DIETZ, Klaus
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Nota di contenuto	Mechanical, Industrial and Manufacturing Technologies; Preface and Committees; Table of Contents; Chapter 1: Research in Numerical Simulation and Optimisation; Numerical Simulation on Shock Initiation of Double-Shell Charges by High Velocity Impact; Research on Simulation System of Aero-Generator; Real-Time Attitude Simulation of Aerocraft Using dSPACE Emulator and Three-Axis Turn Table; Electric Vehicle Transmission Gear Ratio Optimization Based on Particle Swarm Optimization; Numerical Simulation Research on the Hydrodynamic Forces Acting on a Tanker in Oblique Motion Study on the Efficiency Optimization of U-Shaped Curve Rail Type AS/RSChapter 2: Characteristic Studies of Mechanical and Material Systems; Study on Sheet Bonding and Break Strength Characteristics; Static and Dynamic Stiffness Characteristics Analysis of Hydro-Pneumatic Suspension; Evaluation of Tensile Properties of Pressure Vessel Materials by Shear Punch Test Method; Analysis of the Dynamic

Response of a Cracked Beam Structure; Visualization of Supersonic Non-Newtonian Liquid Jets
Deformation and Stresses Analysis in FG Rotating Hollow Disk and Cylinder Subjected to Thermal and Mechanical LoadTest and Numerical Analysis of Underwater Explosion on Circular Plates; Comparing of the Welding Atmosphere Moisture Effect on Hydrogen Distribution in Ti-6AL-4V, Pure Commercial Titanium and Ti-15V-3CR-3SN-3AL Weld Joints; Chapter 3: Chaotic States and Analysis of Systems; Design and Research of Electric Vehicle Driving System Based on SOPC; Study on the Temperature Filed of Wet Dual Clutch Transmission during Starting Process
Research on Taylor Vortices in the Wedge-Shaped Air Gap of Evaporation Cooling Turbo GeneratorOmni-Vision System of Intelligent Car Based on DSP & FPGA; Finite-Time Chaos Control and Synchronization of the New Chaotic System with Unknown Parameters; Chaotic Analysis of the Velocity Signal in Impinging Stream Mixer; Modeling and Experiment on Active Vibration Control of Hydraulic Excitation System; The Study of Ball and Plate System Based on Non-Linear PID; Finite Element Analysis of the Static/Dynamic Behavior of Wind Turbine Gearbox
Design of Auto Route Identified Vehicle Model Based on MC9S12XS128Finite Element Analysis of Flexensional Transducer with Slotted Shell; Chapter 4: Vibrational Analysis and Mechanics of Structures etc.; Experimental Study on Bending Capacity of Plain Wall System; Gear Vibration Monitoring System Based on Virtual Instruments; Design and Dynamic Walking Control of Humanoid Robot SCUT-I; Maximum Bending Moment and Maximum Additional Bending Moment for High Vertical Vessels under Wind Pressure; Experimental Research on Trajectory Control of Walking Rehabilitation Training Robot Kinematics Simulation and Control System Design of Serial Robot Based on ADAMS and Pro/E

Sommario/riassunto

These proceedings consist of the fully refereed papers presented at the conference. The main conference themes were Mechanical Engineering, Materials and Energy. The peer-reviewed papers are divided into six chapters: Research in Numerical Simulation and Optimisation; Characteristic Studies of Mechanical and Material Systems; Chaotic States and Analysis of Systems; Vibrational Analysis and Mechanics of Structures etc.; Materials Science and Technologies; Mechanical/Automotive Systems and Allied Topics.
