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Method Based on Improved PSO-WNN for Deicing Robot on Voltage Transmission Line; An Approximate Algorithm for Shakedown on Gear Contact

Self-Vibration Characteristics of Plane Gate in Inverted Siphon Project
The Stress Analysis of Pressurized Cylindrical Shell with a Surface Crack under Laser Irradiation; Chapter 2: Bio-Inspired Smart Materials and Applications; Experimental Study of Kick up Phenomenon in Thermosonic Wire-Bonding; Research Development and Application of Green Cutting Technology; Nonlinear Seismic Response Analysis of Concrete Perforated Brick Masonry Building; Transportation of Droplets within Two Substrates by Help of Surface Acoustic Wave
Influences of Heat Treatment on Spinning Process with Large Thinning Rate and Performance of 30CrMnSiA
The DNA Genetic Algorithm Applied for Solving Optimal Placement of Sensors; Research on an Improved Cellular Automata Model; Control Algorithm Research of Electric Actuator Based on Switched Reluctance Motor; Study on Structure Including Interface Based on Interface Stress Element Method; A Probability Assessment Method for Degradation of Bridge Power MOSFET Circuit Based on Common Turn-On State
Determining the Soil Water Characteristic Curve in Term of Van Genuchten Parameters by the Particle Swarm Optimization
A Novel Peak-Seek Algorithm Used in FBG Sensor Demodulation System for Vibration Monitoring; Nonlinear Vibration Analysis of Viscoelastic Isolator; Automatic Recognition of Aircraft Noise with PLP Method; Test Analysis on the Model of Expression Based on the Thematical Statistic Method; Research on Suppression Technology of OFDM Peak-to-Average Power Ratio; Reduction Algorithms for Multi-Covering Information System
Development and Application of Four Typical Rapid Prototyping Technologies

Sommario/riassunto

The aim of this special volume is to facilitate the exchange of information on the best practices to be adopted in Advanced Intelligent Structure, Bio-inspired Smart Materials and Structures, Active Materials, Mechanics and Behavior, Vibration and Control, Modeling, Simulation, Control and Applications, etc. It provides the opportunity for engineers and scientists in academia, industry and government to address the most innovative research and development, including technical challenges, social and economic issues, and to discuss their ideas, results, work-in-progress and experience in all asp
