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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Aerospace and Mechanical Engineering; Preface and Conference Committees; Table of Contents; Chapter 1: Materials Science and Materials Processing Technology; Improvement of TA Cloning Method to Facilitate Direct Directional Cloning of PCR Products; High-Temperature Antioxidant Screening for Silicone Oil; Transverse Stiffness Prediction of Fibrous Metal Matrix Composites; Gold Ball Wire Bonding Energy Transfer Mechanism and Experimental Studies; A Preliminary Study on the Sound Absorption of Self-Facing Date Palm Fibers Study of Thermal Analysis for Monitoring of Liquid Metal in Production of Aluminum Casting Tool Wear Monitoring of High Speed Milling Based on Vibratory Signal Processing; Neural Network Monitoring Strategy of Cutting Tool Wear of Horizontal High Speed Milling; Influence of Welding Speed over Dilution for Circular Grid Plate Hardfaced with Colmonoy-5; Chapter 2: Aerospace and Mechanical Engineering, Applied Mechanics; Quasisolution of the Inverse 3D Aerohydrodynamics Problem; Modeling and Simulation of Solar Array Drive Assembly Disturbance Driving a Flexible Load Modeling of Atmospheric Processes Based on the Averaged Navier-

Stokes Equations Exploration of Navigation Simulator Applying in Maritime Trial; Estimation of Critical Performance Parameters of the Thermocouple in a Bypass Device, Made of SME Alloy, Designed for LIABs on Spacecraft; Sensitivity Analysis of Airdrop Condition Parameters Based on Response Surface Method; Quadrotor Position Control Using Cascaded Adaptive Integral Backstepping Controllers; Asymmetrical Lateral Jet Interaction on a Slender Body in Supersonic Flow

Simulation and Testing Verification of Tracked Vehicle's Steering Process Considering Track Skidding A Development of Human Machine Interface in a Miniature 3-Axis Milling Machine Prototyping; Long Guide Straightness Error Measurement Based on Laser Interference; A High Accuracy of Magnetometer by Using Independent Directional Magnetic Field Measurement Technique; Radiation Degradation Modeling of Bipolar Operational Amplifier Input Offset Voltage in LTSpice IV; Mechanism of the Saturation of the Radiation Induced Interface Trap Buildup; Experimental Study of Wind Driven Scroll Pump The Study of Flaws of High-Viscosity Fluids in Interaction with Peripheral Annular Water Flow in Complex Pipelines Numerical Prediction of Erosive Potential of Unsteady Cavitating Flow around Hydrofoil; Study on the Stiffness of Positioning Platform with Large Trip and High Precision under Thermal to Structure Coupling; Chapter 3: Computation Methods and Information Technologies; New Observations from Comparison between the Benner et al. and the Ainley and Mathieson Models for Profile Losses; Study on TEA Encryption for Public Communication Network Wireless Remoter Educational Opportunities via Distance Learning System

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 Conference on Aerospace and Mechanical Engineering (AME 2014), April 13-14, 2014, Bangkok, Thailand. The 45 papers are grouped as follows:
Chapter 1: Materials Science and Materials Processing Technology,
Chapter 2: Aerospace and Mechanical Engineering, Applied Mechanics,
Chapter 3: Computation Methods and Information Technologies
