

International Journal of Materials, Mechanics and Manufacturing

CONTENTS

Volume 3, Number 4, November 2015

• Machinery Manufacturing and Application

Design and Evaluation of the Transparent Liquid Leakage Sensing Device.....223

Masaki Fujikawa and Kenta Miyazaki

Interpolated Velocity Correction Immersed Boundary-Lattice Boltzmann Method for Fluid Flows with Flexible Boundary.....231

Y. G. Chen and L. Wan

Application of Wavelet Transform for Fault Diagnosis in Swash Plate Pump's Control Unit Causing Pipes Flutter.....237

Molham Chikhalsouk and Rama B. Bhat

A New Injectivity Prediction Model for Early Polymer Injection.....243

Xiang'an Lu, Hanqiao Jiang, and Yanli Pei

A Smart Anti-theft System for Vehicle Security.....249

Pritpal Singh, Tanjot Sethi, Bibhuti Bhusan Biswal, and Sujit Kumar Pattanayak

Simulation of Drilling Pressure Profile in Directional Drilling and User Program Development.....255

Weerapong Panichaporn, Ruktai Prurapark, and Kitipat Siemanond

The Research of Simulation Design of Non-metallic Bulletproof Helmet.....261

Haixin Jin and Jiangchang Jin

Response Surface Metamodel to Predict Springback in Sheet Metal Air Bending Process.....266

Jaber E. Abu Qudeiri, Fayez Y. Abu Khadra, Usama Umer, and Hussein M. A. Hussein

Research on Garment Wrinkle Synthetic Method Based on Mass-Spring Model.....270

Yuanwei Chen, Bing He, and Xuefu Yu

• Automation and Mechatronics

Inverse Dynamics and Power Consumption Model of Crab Motion of a Realistic Hexapod Robot.....275

Abhijit Mahapatra, Shibendu Shekhar Roy, and Dilip Kumar Pratihar

Silicon Light-Emitting Device with Application in the Micro-opto-electro-mechanical Systems.....282

Kaikai Xu, Lukas W. Snyman, Jean-Luc Polleux, Hongda Chen, and Guannpyng Li

An RFID-Enabled Automated Warehousing System.....287

Qian Wang, Saleh Alyahya, Nick Bennett, and Hom Dhakal

Embedded Battery Energy Storage System for Diesel Engine Test Applications.....294

Jianna Niu, George You Zhou, and Tong Wu

• Computer Aided Technology

Feature Stroke: A Text Entry Method Using Joystick.....299
 Zhenyu Gu, Cheng Chu, Xingya Xu, and Zhanxun Dong

A Novel Approach for Solving Engineering Optimization Problems Involving Equality Constraints.....304
 Kedar Nath Das and Tapan Kumar Singh