

IMM2013 CONTENT

1).Polymer materials and composite materials

Hyperbranched Polysiloxane Functionalized Graphene Oxide via Polyhydrosilylation
Mengmeng Zhang, Hongxia Yan, Chao Gong, Yichen Feng 026

A smart skin antenna structure for global navigation satellite system
Zonghong Xie, Fei Peng, Peng Zhang, Wei Zhao 032

Effect of Catalysts on the Properties of Fluorinated Polyurethanes
Zan Li, Xia Wang, Ying Li, Wei Chain, Jiaojiao Hu 063

Experimental and numerical simulation of absorbing property of cement-based material blending with silica fume and culver zed fuel ash
WANG Bo, ZHANG Yong, CHEN Rongjun 063

Experimental and numerical simulation of absorbing property of cement-based material blending with graphite and carbon fibers
WANG Bo, ZHANG Yong, CHEN Rongjun 063(064)

Magnetic property of hole-doped double perovskite compound
Suojia Yuan, Qin Zhang, Haibo Sun, Hui Wang 096

Restrained shrinkage ring test on polymer fibres treated in cold plasma discharge
Daniel Kopkane, Lenka Bodnarova, Rudolf Hela 102

A Study of Properties of Dilute Polymer Systems Prepared with Polymer-bearing Wastewater
YANG Jing, LI Jing-yan, PAN Li-li, HE Jin-gang, YANG Kun 124(106)

2).Metals and alloys

Fabrication of NiO nanorings by bubble-bursting bubbles as templates
Yunfeng Guo, Zhihua Feng, Zhihao Yuan 023

Investigation on the Microstructure and Segregation of Superalloy FGH96 by Direct Laser Forming
Haiyang Zhang, Anfeng Zhang, Bin He, Xingkun Shi 056

Preparation of Gold-Nickel Phosphide Core-Shell Nanoparticles via A Facile Solution Method
Hemei Ping, Yuanzhi Chen, Deqian Zeng, Rui Xu, Huizhang Guo, Laisen Wang, Dong-Liang Peng 076

The stress-strain behaviors of high density aluminum foam under monotonic and cyclic loading
Yujie Liu, Bin Qiang 121

4).Biochemistry Materials and Engineering

Research of in situ grafted carbon black
Wen Fu, Anhua Liu, Li Wang E129

Influence of Ge and Si Doping on the Microstructure and Dielectric Properties of Barium Titanate Ceramics
Zhenjiang Shen, Lina Bing, Hongyan Peng, Shaohua Gong, Wei Wu E134

5).Energy Science and Engineering

Comparison between Rankine Cycle and Trilateral cycle in Binary System for Power Generation
Mowffaq Oreijah, Abhijit Date, Aliakbar Akbarzadaha 083

Transmittance Characteristics of ITO/SiO₂/Nb₂O₅ Multi-Layered Film
Yong An Kwon, Gun Eik Jang 085

Flow field analysis of a horizontal wave flow turbine power plant based on FLUENT
Shiming Wang, Ka Tian, Chao Lv, Yanan Wang 092

HEAT TRANSFER ENHANCEMENT USING ULTRASONIC WAVES IN PRESENCE OF LIQUID:A BASIC RESEARCH FOR COOLING ELECTRONIC
F.Baffigi, C.Bartoli 098

The Influence Analysis Model about the Pricing of Carbon Emission Right on China's Generation Right Replacement
Zhongfu Tan, Qinghui Hu, Liqiong Lin, Liwei Ju, Zhihong Chen 114

Study on A New Evaluation Method of the Use Condition of Water Flooding
YANG Jing, YU Hong-yu, HE Jin-gang, SHU Sheng-jian, YANG Kun 124

Computational Fluid Dynamics Analysis for flow field of radiator air intake in the powertrain compartment
Linlin Song, Weizheng Zhang, Yuanfu Cao, Yalei Zeng 125

6).Manufacturing Science and Engineering

Collision Detection Application for Virtual and Augmented Reality Aided Manufacturing System
Jozef Novak-Marcincin, Ludmila Novakova-Marcincinova 014(015)

ADAMS-based Simulation Study on Lateral Stability of Counterbalanced Forklift Trucks
Guang Xia, Xiwen Tang, JinFang Hu, ZongQi Liu 035

Development of real-time look-ahead methodology based on quintic PH curve with G^2 continuity for high-speed machining
Shi Jing, Bi Qingzhen, Wang Yuhan, Liu Gang 073

Aeroelastic Tailoring of Oscillating Supersonic Wing With External Stores
Nur Azam Abdullah, Erwin Sulaeman 091

Box–Behnken design based statistical modeling and optimization of cellulase–assisted microwave extraction of polysaccharide from *Elaeagnus angustifolia* L.
Shu Wang, Hiu-Ping Liu, Yu Zhang, Jia Yu, Wei Yuan 094

Performance analyses and experimental verification for the clamping mechanism of die casting machine
Guoyin Wu, Wencheng Tang, Shuiping Wan 100

SIP: Smart Insulin Pump
Ali Faraji, Mina Kasiri 104

Interactive Foot Orthosis (IFO) for People with Drop Foot
Ali Faraji, Mohsen Rasouli Valajoozi 104(105)

Hierarchical optimization model of cloud manufacturing services combination
Han Zhang, Ruifeng Guo, Cong Geng 109

Hydraulic System Design Research Based on Green Design
Lan-tao Ha 123

Applying TRIZ to Improve A guide post
Chia-Pao,Changa, Ying-Hsiang Lin 131

7).Environmental Materials and Engineering

Experimental Study on the Treatment of Sewage by Soil
WANG Xiaohui, ZHANG Yong, HUANG Chonghao 048

Rapid and High-Efficient Composting Process of Municipal Sewage Surplus Sludge
HUANG Chonghao, ZHANG Yong, LUO Junhong 049

Study on chemical enhanced primary treatment of sewage
LUO Junhong, HUANG Chonghao, ZHANG Yong 050

Optical characterization of chrysotile for the real time detection
Hosang Ahn, Seung Yeon Song, Jae Hwan Ahn, Dae Gyu Jang, Jin Chul Joo 084

The Model of the Pearl River Water Pollution Based on Reaction Diffusion Equation
Guanjia Huang, Shaomei Fang, Jian Xian, Jiemei Jiang 118

8).Microelectronics and Embedded Systems

Analysis of Light Scattering Properties about dent nanoparticles upon wafer
Lei Gong, Honglu Hou, Jinlong Zou 024

Electrical and structural properties of multioriented thin film PZT deposited at room temprature by RF-PVD
Mohammed Mahdi, Mohammed Kadri 042

Mobile sync client design of cloud storage system
Bing Jiang, Guoyu Ma, Sheng Ma, Jianfeng Xie 093

9).Mechatronics

Introducing Neural Networks as a computational intelligent technique
Aydin Azizi, Farshid Entessari, Kambiz Ghaemi Osgouie, Amirhossein Rezaei Rashnoodi 008

An Electrical-performance Test Method for Test Handler
Yuan Chao, Zhisheng Zhang, Min Dai 016

Research on INS-aided GNSS Carrier Tracking Loopin High Dynamic Circumstance
Xinlong Wang, Chuanjun Li, Xingcheng Li 029

The design of control system for motion platform based PLC
Yanhong Wei, Chang Xu, Guirong Wang, Yuntang Li 036

Vibration Control Applied in a Semi-Active Suspension using Magneto Rheological Damper and Optimal Linear Control Design
Bruno Sousa Carneiro da Cunha, Fábio Roberto Chavarette 053

The Scalability Studies of CAN Bus Based on SONEC
Liu Yu 069

Stochastic Error Modeling of MEMS Inertial Sensor with Implementation to GPS-aided INU System for UAV Motion Sensing
Chot Hun Lim, Tien Sze Lim, Voon Chet Koo 081

A research and development of composite boring and milling CNC system based on PMAC
Jianye Sun, Wenjuan Sun, Guoxun Wang 090

The Construction and Management of Technology Innovation Base on College Students
Kaibao Wang, Jianyong Li, Yaojuan Zhang, Xue Chen, Bo Wang 108

Kinematics Analysis on the Last exertion Skills of Chinese Woman Javelin Thrower Lv Huihui
Ying Wang, Jihe Zhou, Longfei Zhao 110

Kinematic Analysis of Basket with 1/2 Turn to Handstand of Haibin Teng on Parallel Bars
Enci Guo, Jihe Zhou 112

Application of PID in controllable pitch propeller of a multipurpose ocean tug
Huifang Chen 119

Downlink Outage Probability Analysis of D-MIMO Systems over a Composite Channel
WANG Li, LI Yue-heng, PENG Wen-jie, JU Mei-yan, TAN Guo-ping, HUANG Ping E133

10).Automation and Robot

Research of self-adjust compromise control strategy about comfort and stability of quarter vehicle
Chen Jieping, Qiao Yinhu, Feng Wutang, Guo Wanshan 021

The Analysis and Research of Hedge Trimmer Robotics about Manipulator Kinematics
Song Liu, Hui Guo, Wan Zhang Yang 038

Nonlinear Control Of An Inverted Pendulum On A Cart By A Single Control Law
Aydin Özbey, Erol Uzal, Hüseyin Yıldız 041

Smooth Trajectory Planning for 3-UPU Parallel Manipulator
Kambiz Ghaem Osgouie, Amir Hossein Asfia, Mohamad Hossein Sadooghi, Abolfazl Ahmadi Kazemabadi 045

Design and Implementation of Position Locked Control System for Four-Gimbal Platform
Rong Guo, Jingjuan Zhang, Gang Chen, Mingyi Liu 051

Research and Design of Automatic Traction Cutting System for Aluminum Profile Production Based on ARM
Hua Guo, Shengwen Yu 078

Panoramic Image System Design in the Nearly Dark Environment
CHEN Geng, LI Qing, ZHANG Hao 097

A New Five Dimensional Hyperchaotic System and Its Fractional Order Form
Ling Liu, Chongxin Liu, Yifan Liao 099

11).Computer and Internet Application

Simulation Research on Effects of Low Velocity Characteristics to Direct Drive Volume Control Systems
Jingfu Wang, Luyang Wang 019

Design of automatic control simulation experiment system based on Visual C++
Yuke Chen, Yulong Ma, Yang Bai 054

Research on Computer Aided Aircraft Maintenance Training and Evaluation System Based on User-Centered Design
Jianjie Chu, Suihuai Yu, Wenjun Wang 095

Two classes of potential games and the solving method of the equilibria
Xiuhua Hu, Hongwei Gao, Dongye Wang, Yanmei Li, Zhihong Ji E127

12).CAD/CAM/CIM

Rapid Prototyping in Developing Processwith CA Systems Application
Ludmila Novakova-Marcincinova, Jozef Novak-Marcincin 014

High Quality 3D Restoration of Photographed Structures using V.R. Technologies
Silviu BUTNARIU, Florin G ÎRBACIA 088

Fatigue and Comfortableness Analysis in Product Design
Wenjun Wang, Suihuai Yu, Jianjie Chu 103

The effect of adventure education activities on life effectiveness in high school student
Hao-Lun Li, Shu-Wang Lin, Pai-Rou Chou, Wei-Lun Huang, Ho-Cheng Chen, Wei-Chin Hong, Tian-Min Ma,
Shu-Cheng Lin AMSED109

Study of the Discrete Wavelet Transform Based on JPEG2000 Image Compression Algorithm
Jin Cai, Shuo Wang AMSED116

Research on the Huxiang Culture Elements Applied in the Smoked Bamboo Furniture Design
Jie Zhao, Zhe Li, pei Zhao, Zhongfeng Zhang AMSED122

Effects of High Pressure Treatments on The Ripening of Hard Cheeses
Wei Yang, Yao Xu, Dong-jing Zhang, Yan-xing Zhao, Zheng Zhao AMSED124

Mobile payment development in china
Li Zhao, Huaying Shu AMSED146

The Application of Virtual Reality Technology in Teaching of Industrial Design-----Outline of the Project for the
Human-computer Interactive Simulation of the Upper Limb Operations
Guiping Nie, Guangjie Ren SEMEE109