

CHINESE JOURNAL OF MECHANICAL ENGINEERING

Vol. 26, No. 6, 2013

Contents

- 1 063 **Spring-Joint Method for Topology Optimization of Planar Passive Compliant Mechanisms**
JIN Mohui, ZHANG Xianmin, ZHU Benliang, and WANG Nianfeng
- 1 073 **Type Synthesis of 4-DOF Parallel Kinematic Mechanisms Based on Grassmann Line Geometry and Atlas Method**
XIE Fugui, LI Tiemin, and LIU Xinjun
- 1 082 **Novel Mobility Formula for Parallel Mechanisms Expressed with Mobility of General Link Group**
ZHANG Yitong, LU Wenjuan, MU Dejun, YANG Yandong, ZHANG Lijie, and ZENG Daxing
- 1 091 **Modeling and Evaluating of Surface Roughness Prediction in Micro-grinding on Soda-lime Glass Considering Tool Characterization**
CHENG Jun, GONG Yadong, and WANG Jinsheng
- 1 101 **Fractal Surface Synthesis Based on Two Dimensional Discrete Fourier Transform**
ZHOU Chao, GAO Chenghui, and HUANG Jianmeng
- 1 109 **Friction Characteristics of Nanoscale Sliding Contacts between Multi-Asperity Tips and Textured Surfaces**
TONG Ruiting, LIU Geng, and LIU Tianxiang
- 1 118 **Effect of the Cutter Parameters and Machining Parameters on the Interference in Gear Slicing**
CHEN Xinchun, LI Jia, LOU Benchao, SHI Jiang, and YANG Qijun
- 1 127 **Plastic Mechanism of Multi-pass Double-roller Clamping Spinning for Arc-shaped Surface Flange**
FAN Shuqin, ZHAO Shengdun, ZHANG Qi, and LI Yongyi
- 1 138 **Key Techniques and Applications of Adaptive Growth Method for Stiffener Layout Design of Plates and Shells**
DING Xiaohong, JI Xuerong, MA Man, and HOU Jianyun
- 1 149 **Evolution of Residual Stresses in Micro-arc Oxidation Ceramic Coatings on 6061 Al Alloy**
SHEN Dejiu, CAI Jingrui, GUO Changhong, and LIU Peiyu
- 1 154 **Step-stress Accelerated Degradation Test Modeling and Statistical Analysis Methods**
CHEN Wenhua, LIU Juan, GAO Liang, PAN Jun, and LU Xianbiao
- 1 160 **Distributed Collaborative Response Surface Method for Mechanical Dynamic Assembly Reliability Design**
BAI Guangchen and FEI Chengwei
- 1 169 **Modelica-based Object-orient Modeling of Rotor System with Multi-Faults**
LI Ming, WANG Yu, LI Fucui, LI Hongguang, and MENG Guang

- 1 182 **Bispectrum Feature Extraction of Gearbox Faults Based on Nonnegative Tucker3 Decomposition with 3D Calculations**
WANG Haijun, XU Feiyun, ZHAO Jun'ai, JIA Minping, HU Jianzhong, and HUANG Peng
- 1 194 **Simulations and Experimental Investigation on Motion Stability of a Flexible Rotor-bearing System with a Transverse Crack**
LI Chaofeng, YU Hexing, ZHOU Shihua, and WEN Bangchun
- 1 204 **Detecting the Position of the Moving-iron Solenoid by Non-displacement Sensor Based on Parameter Identification of Flux Linkage Characteristics**
WANG Xuping, QUAN Long, and XIONG Guangyu
- 1 212 **Nonlinear Modeling and Identification of the Electro-hydraulic Control System of an Excavator Arm Using BONL Model**
YAN Jun, LI Bo, GUO Gang, ZENG Yonghua, and ZHANG Meijun
- 1 222 **Dynamic Modeling and Experiment of a New Type of Parallel Servo Press Considering Gravity Counterbalance**
HE Jun, GAO Feng, BAI Yongjun, and WU Shengfu
- 1 234 **Simulation of the Interaction between Driver and Seat**
DU Xiaoming, REN Jindong, SANG Chunlei, and LI Lemeng
- 1 243 **Experimental Study on Wear and Spalling Behaviors of Railway Wheel**
WANG Wenjian, GUO Jun, and LIU Qiyue
- 1 250 **Mechanisms of Accelerated Degradation in the Front Cells of PEMFC Stacks and Some Mitigation Strategies**
LI Pengcheng, PEI Pucheng, HE Yongling, YUAN Xing, CHAO Pengxiang, and WANG Xizhong
- 1 259 **Pre-Compression Volume on Flow Ripple Reduction of a Piston Pump**
XU Bing, SONG Yuechao, and YANG Huayong
- 1 267 **Multi-objective Optimization Design and Experimental Investigation of Centrifugal Fan Performance**
ZHANG Lei, WANG Songling, HU Chenxing, and ZHANG Qian
- 1 277 **Nanofluids Transport Model Based on Fokker-Planck Equation and the Convection Heat Transfer Calculation**
LIN Xiaohui, ZHANG Chibin, YANG Juekuan, JIANG Shuyun, REN Weisong, and GU Jun
- A1 **Contents of Journal of Mechanical Engineering, Vol. 49, Nos. 15-19, 2013**

DOI:

Abs

com

topo

obta

meo

whi

spr

by

tip

top

obj

sin

for

Ke

1

th

di

th

m

co

ta

sh

ki

sy

sy

sy

Th

ar

o

C

H

S

U