

CHINESE JOURNAL OF MECHANICAL ENGINEERING

Vol. 24, No. 2, 2011

Contents

Advanced Technology of Pressure Vessels

- 167 **Design, Manufacture and Maintenance of Pressure Equipment Based on Accidents Survey**
CHEN Xuedong, AI Zhibin, FAN Zhichao, WANG Bing, DOU Wanbo, YANG Tiecheng, and GUAN Weihe
- 179 **Load Bearing Capacity and Safety Analysis for Strain-hardening Austenitic Stainless Steel Pressure Vessels**
CHEN Gang and DENG Yangchun
- 187 **Quality Evaluation of Diffusion Bonded Joints by Electrical Resistance Measuring and Microscopic Fatigue Testing**
LI Yujia, XUAN Fuzhen, LI Shuxin, and TU Shandong
- 195 **Multi-axial Fatigue of 2024-T4 Aluminum Alloy**
WANG Xiaogui, GAO Zengliang, QIU Baoxiang, WANG Limei, and JIANG Yanyao
- 202 **Extreme Pressure Equipments**
ZHENG Jinyang, WU Linlin, and SHI Jianfeng
- 207 **Effect of Heat Input on the Microstructure and Mechanical Properties of 07MnCrMoVR Weld Joints**
XU Lianghong, ZHANG Jun, and CHEN Yanqing
- 214 **Investigation on Flow Accelerated Corrosion Mitigation for Secondary Circuit Piping of the Third Qinshan Nuclear Power Plant**
ZHAO Liang, HU Jianqun, WU Zhigang, and WANG Xin
- 220 **Explicit Analytical Solutions of Radial Permeable Power Rate Flow**
LI Yuanyuan and CAI Ruixian
- 224 **Design and Analysis of Gecko-like Robot**
MENG Cai, WANG Tianmiao, GUAN Shengguo, ZHANG Long, WANG Jing, and LI Xiaohu
- 237 **Algorithm for Smooth S-curve Feedrate Profiling Generation**
CHEN Youdong, WEI Hongxing, SUN Kai, LIU Miao, and WANG Tianmiao
- 248 **Control Design for Harmonic Disturbance Rejection for Robot Manipulators with Bounded Inputs**
YAO Yu, WANG Xiaochen, and HE Fenghua
- 257 **Topology Optimization of Compliant Mechanisms with Geometrical Nonlinearities Using the Ground Structure Approach**
ZHAN Jinqing and ZHANG Xianmin

- 264 **Pose Planning for the End-effector of Robot in the Welding of Intersecting Pipes**
LIU Yu, ZHAO Jing, LU Zhenyang, and CHEN Shujun
- 271 **Vehicle Ride Comfort Based on Matching Suspension System**
SHI Jianpeng
- 277 **Design and Dynamics Analysis of Anti-skid Braking System for Aircraft with Four-wheel Bogie Landing Gears**
ZHANG Ming, NIE Hong, and ZHU Rupeng
- 285 **Novel Method for Selection of Regularization Parameter in the Near-field Acoustic Holography**
ZHANG Yongbin, BI Chuanxing, XU Liang, and CHEN Xinzhaohao
- 293 **Separate Control of High Frequency Electro-hydraulic Vibration Exciter**
JIA Wen'ang, RUAN Jian, and REN Yan
- 303 **MG63 Osteoblast-like Cells Growth Behaviour on Carbon/Carbon Composites with Different Carbon Matrixes**
ZHANG Leilei, LI Hejun, LI Kezhi, ZHAO Xueni, WU Heng, and CAO Sheng
- 309 **34 GHz Bandpass Filter for Low-temperature Co-fired Ceramic System-in-Package Application**
XU Ziqiang, SHI Yu, ZENG Zhiyi, LIAO Jiakuan, and LI Tian
- 316 **Optimal Replacement Policy for Cold Standby System**
TAN Lin, YANG Jian, CHENG Zhijun, and GUO Bo
- 323 **Properties and Applications of the Eccentric-gear Drive**
ZHAO Yun, SUN Liang, and YU Gaohong
- 332 Forthcoming IFToMM sponsored events
- A1 Contents and Abstracts of Journal of Mechanical Engineering, Vol. 47, No. 3-6, 2011