



ISSN 1000-9345 CODEN CJMEER

中国机械工程学报

CHINESE JOURNAL OF MECHANICAL ENGINEERING®

http://www.cjmenet.com; www.cjmenet.com.cn; www.springer.com/10033

GIME

Vol. 25, No. 3, May 2012

ISSN 1000-9345





万方数据

CHINESE JOURNAL OF MECHANICAL ENGINEERING

Vol. 25, No. 3, 2012

Contents

411	ZHAO Qingliang, ZHAO Lingling, GUO Bing, STEPHENSIN David, and CORBETT John
419	Influence of Minimum Quantity Lubrication Parameters on Tool Wear and Surface Roughness in Milling of Forged Steel YAN Lutao, YUAN Songmei, and LIU Qiang
430	Simulation and Experiment Research on the Proportional Pressure Control of Water-assisted Injection Molding ZHOU Hua, CHEN Yinglong, ZHANG Zengmeng, and YANG Huayong
439	Analysis on Dynamic Characteristics in Time Domain of Slider with Ultra Thin Spacing YAO Huaping, HUANG Ping, CHEN Yangzhi, and ZHU Lixue
446	Multiscale Analysis on Two-dimensional Nanoscale Adhesive Contacts TONG Ruiting, LIU Geng, and LIU Lan
456	Experimental Investigation on the Flow-induced Noise under Variable Conditions for Centrifugal Pumps YUAN Shouqi, YANG Jun, YUAN Jianping, LUO Yin, and PEI Ji
463	High Speed On/Off Valve Control Hydraulic Propeller ZHU Kangwu, GU Linyi, CHEN Yuanjie, and LI Wei
474	Analysis on Flow Field of the Valveless Piezoelectric Pump with Two Inlets and One Outlet and a Rotating Unsymmetrical Slopes Element XIA Qixiao, ZHANG Jianhui, LEI Hong, and CHENG Wei
484	Detached-eddy Simulation for Time-dependent Turbulent Cavitating Flows HUANG Biao, WANG Guoyu, YU Zhiyi, and SHI Shuguo
491	3D Particle Image Velocimetry Test of Inner Flow in a Double Blade Pump Impeller LIU Houlin, WANG Kai, YUAN Shouqi, TAN Minggao, WANG Yong, and RU Weimin
498	Output Characteristics of a Series Three-port Axial Piston Pump ZHANG Xiaogang, QUAN Long, YANG Yang, WANG Chengbin, and YAO Liwei
506	Investigation of Load Prediction on the Mexico Rotor Using the Technique of Determination of the Angle of Attack YANG Hua, SHEN Wenzhong, SØRENSEN Jens Nørkær, and ZHU Weijun
515	Integrated Control Strategy for CVT Powertrains with Consideration of Vehicle Drivability SUN Dongye, LUO Yong, and QIN Datong

524	Analysis Method and Principle of Dual-mode Electro-mechanical Variable Transmission Program	
	LI Hongcai, YAN Qingdong, XIANG Changle, and WANG Weida	
530	Algorithm Research and Realization of the Turning Control System for Heavy Transportation Vehicle MI Hanguang, YUAN Haiwen, WANG Qiusheng, and ZHAO Jingpo	
536	Influence of Vehicle Parameters on Critical Hunting Speed Based on Ruzicka Model CUI Dabin, LI Li, JIN Xuesong, XIAO Xinbiao, and DING Junjun	
543	Antiskid Control of Railway Train Braking Based on Adhesion Creep Behavior ZUO Jianyong and CHEN Zhongkai	
550	Floating Clamping Mechanism of PT Fuel Injector and Its Dynamic Characteristics Analysis WANG Xinqing, LIANG Sheng, XIA Tian, WANG Dong, and QIAN Shuhua	
557	Source Separation of Diesel Engine Vibration Based on the Empirical Mode Decomposition and Independent Component Analysis DU Xianfeng, LI Zhijun, BI Fengrong, ZHANG Junhong, WANG Xia, and SHAO Kang	
564	Integrated Power and Single Axis Attitude Control System with Two Flywheels HAN Bangcheng	
576	Economic Design of \bar{X} & S Control Charts Based on Taguchi's Loss Function and Its Optimization GUO Yu, YANG Wen'an, LIAO Wenhe, and GAO Shiwen	
587	Nonparametric Control Scheme for Monitoring Phase II Nonlinear Profiles with Varied Argument Values ZHANG Yang, HE Zhen, FANG Juntao, and ZHANG Min	
598	Mesh Smoothing Method Based on Local Wave Analysis QIN Xujia, ZHENG Hongbo, CHENG Shiwei, LIU Shishuang, and XU Xiaogang	
608	Reliability Sensitivity-based Correlation Coefficient Calculation in Structural Reliability Analysis YANG Zhou, ZHANG Yimin, ZHANG Xufang, and HUANG Xianzhen	
615	Analysis on Autofrettage of Cylinders ZHU Ruilin, ZHU Guolin, and TANG Feng	
624	Limit Load Solution for Electron Beam Welded Joints with Single Edge Weld Center Crack in Tension LU Wei, SHI Yaowu, LI Xiaoyan, and LEI Yongping	
A1	Contents of Journal of Mechanical Engineering, Vol. 48, Nos. 3-5, 2012	