

机械工程学报

JIXIE GONGCHENG XUEBAO

2011年第47卷第4期 2月20日出版

仪器科学与技术

- 金属薄膜导线的亚微米局域电导率精确测量技术 吴 蕾 葛耀峰 居冰峰 (1)
固态振梁角速率传感器的动力学特性与误差分析 刘 宇 路永乐 曾燎燎等 (7)
基于经验模式分解的单通道机械信号盲分离 母文峰 陈小虎 苏勋家 (12)
脉冲交变磁场测量技术缺陷识别与定量评估 胡祥超 罗飞路 何资泽等 (17)

材料科学与工程

- 板料冲压成形破坏判断准则的研究进展 黄晓忠 陈勘实 陈 军 (23)
磁控溅射微纳米梯度镀层对45钢及40Cr钢弹性变形性能的影响 白力静 蒋百灵 乔 亮等 (32)
脉冲MIG焊建模仿真分析及弧长控制 黄健康 石 珏 卢立晖等 (37)
变极性等离子双弧及其控制 韩永全 许 萍 杜茂华等 (42)
基于塑性流动本构关系的多步反向模拟法 唐炳涛 鹿晓阳 (47)
超声钨极氩弧复合焊接电弧压力特征研究 孙清洁 林三宝 杨春利等 (53)
冷轧板形测量值计算模型的研究与应用 王鹏飞 张殿华 刘佳伟等 (58)
冷轧TRIP钢中残余奥氏体的热稳定性 张宇光 赵爱民 赵征志等 (66)
纸机旋转空心辊结构的弹塑性应力分析 刘迎春 (71)
冷轧机板形调节能力分析方法的研究与应用 闫沁太 张 杰 贾生晖等 (77)
钢丝缠绕拱梁立柱全剖分—坎合机架 刘海霞 颜永年 曾 攀等 (82)
电磁复合处理降低焊接残余应力增益效应的初步研究 黄欣泉 蔡志鹏 (88)

运载工程

- 汽车前部结构对骑自行车人颅脑损伤防护特性的影响 莫富灏 杨济匡 李松庆 (93)
四轮驱动混合动力轿车驱动模式切换控制 赵治国 何 宁 朱 阳等 (100)
铁路货车转向构架B级铸钢的疲劳极限及损伤 于连友 赵永翔 杨 冰 (110)
满足可靠性要求的轻量化车身结构多目标优化方法 谢 然 兰凤崇 陈吉清等 (117)
明线会车压力波幅变化规律研究 李人宪 刘 杰 戚振宕等 (125)

可再生能源与工程热物理

- 烧结开孔金属泡沫壁的辐射和自然对流耦合换热试验研究 汪天送 屈治国 陶文铨等 (131)
往复式压缩机气量无级调节过程中进气阀的动态研究 唐 斌 李连生 王 乐 (136)
利用振动加速度识别HCCI发动机燃烧始点 唐 娟 程 勇 马宗正等 (142)
导流型垂直轴风力机内部流场数值模拟中若干问题的探讨 王企鲲 (147)

交叉与前沿

流体传动与控制

- 1.5级亚音速试验台透平设计 邓庆锋 郑 群 (155)
热卷取踏步控制电液伺服系统仿真、试验及其应用 李 威 权 龙 赵丙龙等 (164)
采用环形入口壳体的诱导轮汽蚀性能研究 唐 飞 李家文 陈 昊等 (171)

工业工程

- 存在设备无关延迟约束的综合柔性调度算法 谢志强 邵 侠 杨 静 (177)
一种求解加工时间离散可控作业车间调度问题的混合算法 牛刚刚 孙树栋 李兢尧等 (186)
基于噪声分布等分位点和均匀设计的外表设计 申丽娟 杨 军 赵 宇 (192)
《机械工程学报》被EI收录论文目次(2010年第11、12期) (22, 31)

JOURNAL OF MECHANICAL ENGINEERING

Vol.47 No.4 February 2011

CONTENTS

- Methodology for Measurement of Submicron Metallic Wire's Local Electrical Conductivity by Applying Four-points AFM Probe Technique WU Lei GE Yaozheng JU Bingfeng (1)
- Analysis on Dynamic Characteristic and Error of Solid Vibration Beam Rate Sensor LIU Yu LU Yongle ZENG Liaoliao et al (7)
- Blind Source Separation of Single-channel Mechanical Signal Based on Empirical Mode Decomposition WU Wenfeng CHEN Xiaohu SU Xunjia (12)
- Pulsed Alternating Current Field Measurement Technique for Defect Identification and Quantification HU Xiangchao LUO Feilu HE Yunze et al (17)
- Review on Fracture Criterion of Sheet Metal Forming HUANG Xiaozhong CHEN Jieshi CHEN Jun (23)
- Influence of Nano-gradient Coatings on the Elastic Deformation Properties of 45 Steel and 40Cr Steel Deposited by Magnetron Sputtering BAI Lijing JIANG Bailing QIAO Liang et al (32)
- Modeling, Simulation Analysis and Arc Length Control of Pulsed MIG Welding HUANG Jiankang SHI Yu LU Lihui et al (37)
- Double-arc and Its Control Procedures in Variable Polarity Plasma Arc HAN Yongquan XU Ping DU Maohua et al (42)
- Novel Multi-step Inverse Finite Element Method Based on Constitutive Equations of Plastic Flow in Sheet Metal Forming TANG Bingtao LU Xiaoyang (47)
- Characteristic of Arc Pressure in Ultrasonic-TIG Hybrid Welding SUN Qingjie LIN Sanbao YANG Chunli et al (53)
- Research and Application of the Flatness Measurement Calculation Model on Cold Rolling Mill WANG Pengfei ZHANG Dianhua LIU Jiawei et al (58)
- Thermal Stability of Retained Austenite in TRIP-aided Cold-rolled Steel ZHANG Yuguang ZHAO Aimin ZHAO Zhengzhi et al (66)
- Analysis of Elastic-plastic Stresses in Rotating Paper Machine Hollow Rolls LIU Yingchun (71)
- Research on Analyzing the Flatness Adjusting Capacity for Cold Mill and Its Application YAN Qintai ZHANG Jie JIA Shenghui et al (77)
- Pillar and Arched Girder Totally Bumpy Ridge Joining Frame with Steel Wire Wound LIU Haixia YAN Yongnian ZENG Pan et al (82)
- Enhancement Effect of Reducing Welding Residual Stress by Composite Electromagnetic Treatment HUANG Xinquan CAI Zhipeng (88)

(下转封三)

(上接第 II 页)

Influence of Vehicle Frontal Structure on Protective Characteristics of Brain

Injury of Bicyclist MO Fuhao YANG Jikuang LI Songqing (93)

Mode Transition Control for Four Wheel Drive Hybrid Electric Car

..... ZHAO Zhiguo HE Ning ZHU Yang et al (100)

Fatigue Limits and Damage of the Grade B Cast Steel for Chinese Railway Freight

Car Bogie Frames YU Lianyou ZHAO Yongxiang YANG Bing (110)

Multi-objective Optimization Method in Car-body Structure Light-weight Design

with Reliability Requirement XIE Ran LAN Fengchong CHEN Jiqing et al (117)

Air Pressure Pulse Developing Regularity of High-speed Trains Crossing in Open Air

..... LI Renxian LIU Jie QI Zhendang et al (125)

Combined Heat Transfer of Radiation and Convection on Wall Sintered with Open

Celled Metallic Foams WANG Tiansong QU Zhiguo TAO Wenquan et al (131)

Dynamic Analysis of Valve with Stepless Capacity Control for Reciprocating Compressor

..... TANG Bin LI Liansheng WANG Le (136)

Combustion Timing Identification by Using Vibration Acceleration in HCCI Engines

..... TANG Juan CHENG Yong MA Zongzheng et al (142)

Some Aspects on Flow Field Simulation for Guiding VAWT WANG Qikun (147)

Design of a 1.5 Stage Subsonic Test Turbine Facility

..... DENG Qingfeng ZHENG Qun (155)

Simulation and Experiment of Electro-hydraulic Servo System and Its

Application in Step Controlled Hot Coiler

..... LI Bin QUAN Long ZHAO Binglong et al (164)

Study on Cavitation Performance of Inducer with Annulus Inlet Casing

..... TANG Fei LI Jiawen CHEN Hui et al (171)

Algorithm for Integrated Flexible Scheduling with Device-independence Deferred Constraint

..... XIE Zhiqiang SHAO Xia YANG Jing (177)

Hybrid Algorithm for JSP with Discretely Controllable Processing Times

..... NIU Ganggang SUN Shudong LI Jingyao et al (186)

Outer Array Design Based on Quantile of Noise Distribution and Uniform Design

..... SHEN Lijuan YANG Jun ZHAO Yu (192)