

目次

CONTENTS

机械制造与自动化

MACHINE BUILDING & AUTOMATION

2010年第6期(总第211期)
No.6 2010 (Total Issue No.211)

综述与展望 / Summaries of Special Topics

- 1 中国铸造业发展的思考 ■孙国雄
Ponder Over the Development of China Foundry Industry
- 4 数控制造装备可靠性技术 ■张根保 曾海峰
Reliability Technology of Numerical-Controlled Manufacturing Equipment

机械制造与研究 / Machine Manufacture and Research

- 7 逆向工程及其在NC加工中的应用研究 ■陈庆文 李军 赵凤成
Study of RE and its Application in Numerical Control Manufacturing?
- 11 模态分析在航天电子产品结构设计中的应用 ■唐心春 张才文
Application of Modal Simulation Technology in Structural Design of Space Electronic Equipment
- 14 RP/RT技术在新产品开发中的集成应用研究 ■郭华 王勇
Integrated Application Study of RP/RT Technology on New Product Development
- 18 基于参数化设计方法的S弯扩压器性能分析 ■赵士洋 钟易成
Performance Analysis of S-duct Diffuser Based on Parameterized Method
- 22 电动搬运车液压防滑装置设计 ■王路伟 李国平 舒利盛
Design of Hydraulic Anti-skid Device for Electric Truck
- 24 变频制冷压缩机簧片阀疲劳强度模糊可靠性设计 ■王凌杰 芮延年 段晓任
Fuzzy Reliability Design of Fatigue Strength for Reed Valve of Inverter Refrigeration Compressor
- 27 基于事例推理的异形斜顶及新型滑块的三维设计 ■蒋晔
3D Design of Special-shaped Slanted Ejecting and New Slide Based on Case Reasoning Technology
- 29 圆弧球面砂轮修整工具的设计 ■牟思惠
Design of Grinding Wheel Dresser for Spherical Surface
- 30 基于连续多帧加权平均法的炮弹铆点定位研究 ■郝旺 杨润泽 尹晓春
Study of Cannonball Riveted Point Detection and Location Based on Multi-Consecutive-Frames Weighted Average
- 33 KBE技术在门式启闭机快速平台建立中的应用研究 ■王蕴波
Application Research on Technology of KEB in Establishment of Sluice Gate Gantry Crane Fast Platform
- 37 壳体缸筒存在半孔的滚压加工工艺研究 ■张世良 杨晋平
Research on Rolling Process Realization when Half Hole Exists
- 42 微细切削加工影响因素研究 ■王志勇 吴笑天 袁玉兰
Researching on Micromachining Mechanism
- 45 五轴联动加工中心加工弧面凸轮 ■奚湘屏 袁光明 刘磊
Process of Globoid Cam on 5-axes Machining Center
- 49 钢轨焊后正火设备研究 ■青松铸 戴虹 周世恒
Research on Rail Normalizing Equipment after Welding
- 52 基于有限元法的轻型客车车身瞬态动力学分析 ■白桂彩
Transient Dynamic Analysis for Body of Light Bus Based on Finite Element Method
- 55 石油钻头的实体建模及有限元分析 ■张双侠 卢华 纳斯哈提
Petroleum Auger Solid Modeling and Finite Element Analysis
- 61 数控机床在线检测后置处理方法研究 ■黄志文 刘黎
Study of Post-processing for NC Machine On-line Inspection
- 65 换向阀在液压系统中的合理使用 ■李华
Reasonable Use about Directional Change Valve of Hydraulic Circuit
- 68 渐开线直齿圆柱齿轮的有限元分析 ■何亚银
Finite Element Analysis of Involute Spur Gear
- 70 双V型带式输送机运量计算及参数确定 ■张琳
Calculation of the Conveying Volume and Determination of Parameter for the Double-V-Structure Conveyor
- 72 独立悬挂复式涡轮钻具结构特点及强度分析 ■张强 张鹏
Structural Characteristics and Strength Analysis of Multi-Motor Sections Turbodrill with Independent Thrust Bearing in Each Section
- 76 施工机械设备的可靠性预测 ■闫忠杰
Reliability Prediction of Construction Machinery and Equipment
- 78 城市生活垃圾分拣的探讨与应用 ■李宏琳
Discussion on City House Refuse Sorts and Use
- 79 基于自适应遗传算法的工程装备液压系统测试选择研究 ■冉红亮 张琦 朱春生
Research on Engineering Equipment Hydraulic System Test Selection Based on Adaptive Genetic Algorithm
- 82 基于显色度原理机床色彩设计与评价 ■芮晓光 李涵 芮延年
Color Design and Evaluation of Machine Tool Based on Chromaticity Theory

信息技术 / Information Technology

- 86 基于MC9S12DG128微处理器的CAN中继器 ■陈丽换 周怡君
Design of CAN Repeater Based on MC9S12DG128 Microprocessor
- 88 基于参数化编程语言的ANSYS二次开发 ■熊梅芳 潘晓勇
Secondary Development of ANSYS Based on Parametric Programming Language

- 90 基于ANSYS车床主轴有限元分析 The Finite Element Analysis of Lathe Spindle Based on ANSYS ■薛智勇 李东波 张威
- 93 数字化校园模式下的高校招投标管理系统开发 Research on University Tender Bid Management System in Construction of Digital University Campus ■吴慧兰 焦磊
- 96 Linux下串口通信在工业控制方面的应用技术 Application of Serial Communication in Industrial Control Based on Linux ■刘小成 朱佳华 林峰
- 99 基于NX二次开发的特征识别技术研究 Feature Recognition Technology Study Based on NX Secondary Development ■花锋
- 101 基于UG NX的数字化设计与制造技术的应用 Digital Design and Manufacturing Technique Application Based on UG NX ■韩立 姜彤 李增威
- 103 基于CATIA的齿轮装配体的CAE分析 CAE Analysis and Research on Gear Assembly Based on CATIA ■汪宗兵 刘日良 廖希亮 吕志富
- 105 基于Pro/E的圆柱齿轮减速器参数化设计 Cylindrical Gear Reducer Parameter Design Based on Pro/E ■敬谦 周志勇 程明
- 108 基于Pro/E的渐开线斜齿轮参数化自动造型 Parameterized Model of Helical Gear Based on Pro/E ■黄丽娟
- 111 基于SolidWorks的行星齿轮机构建模与虚拟装配 3D Modeling and Virtual Assembly of Planet Gear Mechanism Based on SolidWorks ■张融 王伟 张秀梅
- 114 基于SolidWorks的调节阀三维参数化设计方法研究 Design Method in Three-dimensional Parameters for Control Valve Based on SolidWorks ■徐洁
- 117 用VB程序分析机构运动时图形失真问题的处理 Dealing with Problem about Graph Distortion when Using VB Program to Analyze Mechanism Motion ■林莉
- 119 卡车装配线数据采集及监控系统 Data Detection and Monitoring System about Truck Assemble Line ■朱祥彪 朱贺
- 122 基于ABAQUS兆瓦级风力发电机组机舱罩有限元分析仿真 Nonlinear Finite Element Analysis and Simulation of Nacelle-Cover of MW-Class Wind Turbine Based on ABAQUS ■宋加佳 晏红文 郭知彼 新文通
- 125 基于OPC技术的PLC与FluidSIM-P气动控制仿真 Simulation of Pneumatic Control by PLC and FluidSIM-P Based on OPC Technology ■孙穆
- 128 微分法和最优设计组合的摆动凸轮机构运动仿真 Motion Simulation of Differential Method and Optimal Combination of Design Techniques Design Swing Cam Mechanism ■李传红
- 132 FANUC用户宏程序在铣加工中的应用 On User Macro Program FANUC Milling Machining ■伍文进 徐中云

电气技术与自动化 / Electric Technology and Automation

- 136 基于虚拟样机技术的6-SPS并联机器人的优化设计 The Optimization Design of 6-SPS Parallel Manipulator Based on Virtual Prototyping ■唐红品 郭钢 程伟
- 140 基于ANSYS新型机械手自动换刀装置有限元分析 Finite Element Analysis of New Robot ATC Based on ANSYS ■吴巍
- 143 四腿机器人的运动控制系统设计 Motion Control System Design of the Four-legged Robot ■张华儒 张毅
- 146 数字触发中触发角的计算 Calculation of Triggering Angle in Digital Trigger ■王清龙 潘厚宏 王丽仙
- 148 浅谈无功补偿 Analysis of Reactive Power Compensation ■贺从收
- 150 基于DSP的ATV-ATT电动机控制系统设计 Design of ATV-ATT Control System Based on DSP ■刘玉磊 陈玲
- 153 基于组态王的MPS监控系统设计 MPS Monitoring System Design Based on Kingview ■王春生
- 156 烟叶异物剔除系统中图像处理卡的研究 Research on Image Processing Card in the Tobacco Sundries Eliminating System ■何浩 张乐年
- 159 流延薄膜机组PLC控制系统的设计与应用 Design and Application of Casting Film Machine PLC Control System ■黄晓华 曹娟 王伟
- 162 煤矿通风机变频调速监控系统的研制与应用 Study and Application of Frequency Conversion Speed-control Monitoring System for Coal-mine Fanner ■林蒙丹 赵雪林
- 164 直线电动机速度控制的研究 Research on Speed Control of Linear Motor ■李小军
- 167 嵌入式馈线自动化智能终端设计 Design of Feeder Terminal Unit Based on Embedded System ■黄海
- 170 基于RS-485的PLC与变频器的通讯控制 Communication between PLC and Inverter Based on RS-485 ■范金玲 李洪群

技术讲座 / Electric Technology and Automation

- 173 光伏发电控制技术的发展现状 Development of the Control Technologies for Photovoltaic Power System ■王宏华

消息与动态

政策导航—国家新能源汽车业发展规划可望出台
对“作者简介”的要求

3
158

启用新的电子邮箱

95