

实验与研究 Experiment & Research

- 纯钨异形制品空心阴极烧结工艺研究·····任志远, 于东升, 王从曾, 等 ①
 Research on Sintering Process for Different Shaped Products of Pure Tungsten by Hollow Cathode Discharge
- 快速凝固耐热铝合金的研究进展·····米国发, 董翠粉 ④
 Research Development of Rapid-solidified Heat Resistant Aluminum Alloys
- Ti, B, RE对Sr变质ZLD106铝合金组织和性能的影响·····仲志国, 樊彬彬, 左秀荣, 等 ⑦
 Influences of Ti, B, RE on Microstructure and Mechanical Properties of ZLD106 Alloys Modified by Sr
- 稀土对SnAgCu系钎料合金蠕变断裂寿命的影响·····杨洁 ⑩
 Effect of RE on Creep Rupture Life of SnAgCu Solder
- 基于数值模拟的等通道转角扭挤工艺参数优化设计·····许泽银, 赵茂俞, 徐强 ⑬
 Optimization of Processing Parameters of Equal Channel Angular Pressing and Twist Extrusion Deformation Based on Numerical Simulation
- 自生碳化物增强高锰钢堆焊材料的研究·····时海芳, 魏丽凤, 韩彦朝, 等 ⑰
 Study on Surfacing Materials of In-situ Carbide Reinforced High Manganese Steel
- 同步器齿环模锻金属流动规律分析及工艺改进·····王梦寒, 邵长伟, 徐志敏, 等 ⑲
 Analysis of Metal Flow and Technology Improvement on Synchronizer Ring Precision Die-forging
- 高铬耐磨铸铁件空冷过程温度场的有限元分析·····张建新, 高爱华 ⑳
 Finite Element Analysis of Temperature Field of High Chromium Wear Resistance Cast Irons Part During Air Cooling
- Ti(CN)和V(CN)细化剂对工业纯铝晶粒细化效果的对比·····王联波, 唐正华, 王鹏, 等 ㉒
 Influence of Ti(CN) and V(CN) Refiner on Refining Effect of Commercial Pure Aluminum
- 超声波作用对NH₄Cl枝晶形态影响的研究·····金焱, 毕学工 ㉔
 Influence of Ultrasonic Treatment on Morphology of NH₄Cl Dendrite
- 不同合金化体系的合金钢焊接头的耐腐蚀性比较·····孔小东, 杨明波, 朱梅五 ㉖
 Corrosion Resistance of Welded Joints of Alloy-steels with Different Alloying System
- 制备工艺对高强铝合金组织及性能的影响·····马瑞, 周娟, 肖于德 ㉘
 Effect of Preparation Process on Microstructure and Mechanical Properties of Ultrahigh Strength Aluminum Alloy

铸造技术 Casting Technology

- 基于ProCAST转K6摇枕数值模拟及工艺优化·····刘运兵, 卜继玲, 王小中, 等 ㉙
 Numerical Simulation and Process Optimization of Bolster ZK6 Based on ProCAST
- 消失模铸造砂处理系统智能控制研究与应用·····同志学, 吴晓君, 史丽晨 ㉛
 Research and Application of Intelligent Control System Conditioning System in Sand for Lost Foam Casting
- 镶嵌铸铁圈预渗工艺及组织结构的对比研究·····冯士活 ㉝
 Contrast Research on Microstructure and Pre-infiltration Process of Mosaic Iron Ring
- 超高铬铸铁气门座离心铸造工艺研究·····宋现锋, 邵明, 屈盛官 ㉟
 Study on Centrifugal Casting Technology for Ultra-high-chromium Cast Iron Valve Seat
- 锰和稀土对电热ZL102合金组织和性能的影响·····李俊青, 刘扭参, 杨明生 ㊱
 Influences of Mn and RE on Microstructure and Mechanical Properties of Electro-thermal ZL102 Alloy
- 磷、锶复合变质对Al-24%Si合金组织形貌的影响·····李华基, 饶劲松, 陈俊桃 ㊳
 Effect of P, Sr and Their Composite Modifier on Microstructure of Al-24%Si Alloy
- ZL114A合金复合变质的研究·····高炳易 ㊵
 Research on Composite Modification of ZL114A Alloy
- 基于华铸CAE10.0的球铁件壳型铸造工艺开发·····张光明, 王泽忠 ㊷
 Development of Shell-mold Casting Process for Ductile Iron Castings Based on Inte CAST Software CAE10.0
- 机械振动对ZL201铝合金凝固组织的影响·····谭群燕 ㊹
 Effect of Mechanical Vibration on Microstructure of ZL201 Alloy
- 高强度柴油机燃油缓冲器铸件工艺和实验研究·····李军 ㊻
 Technology and Experimental Study on High-strength Casting of Diesel Engine Fuel Buffer
- 液压缸体两端摩擦热成形工艺的研究·····姚建辉, 王骞, 高英敏 ㊽
 Study on Friction Hot Forming Process for Hydraulic Cylinder Ends

- 变质处理对ZL114A合金组织和性能的影响·····赵淑荣, 金青林, 刘斌 17
Effect of Modification Treatment on Microstructure and Property of ZL114A Alloy
电磁搅拌下铝铜合金初生固相与液相关系的初步探讨·····陈莉娟, 金青林, 蒋业华 15
Discussion on Relationship Between Primary Solid Phase and Liquid Phase in Al-Cu Alloy
Under Electromagnetic Stirring

锻压技术 Forging Technology

- 工艺参数对薄壁矩形管绕弯成形失稳起皱影响的显著性分析·····李佳佳, 刘郁丽, 赵刚要, 等 17
Study on Significant Influence of Process Parameters on Wrinkling of Rotary-draw
Bending Formation of Thin Walled Rectangular Tube
基于DEFORM-3D的汽车离合器盖拉深成形有限元数值模拟·····谢玲玲, 郑光文, 王萍, 等 81
Finite Element Numerical Simulation of Drawing Process for Automobile Clutch Cover Based
on DEFORM-3D
铜质同步器齿环半闭式精锻新工艺研究与技术实现·····周杰, 汪丰林, 王梦寒, 等 84
Study on A New Process for Semiclosed Precision Forging of Copper Synchronizer Ring
and Technical Realization
双金属复合管的挤压成形工艺研究·····骆瑞雪 87
Study on Extrusion Forming Technique for Bimetal-lined Pipe
背压对等径角挤压成形工艺影响的有限元分析·····李永志, 谢玉敏, 白小波 90
Finite Element Analysis of Effect of Back Pressure on Plastic Deformation in Equal
Channel Angular Pressing
汽车覆盖件成形过程中回弹问题研究现状·····赵侠 93
Research State on Springback of Autobody Panel in Stamping
轿车齿轮精密成型的有限元模拟及齿形数字化修形·····王海平, 李林刚 96
Finite Element Simulation and Numeric Profile Modification for Precision Form of Car Gear
阀座液态模锻工艺分析·····徐胜利 99
Analysis on Liquid Die Forging Process for Valve Seat
钢质锻件加热时间的确定·····李志广, 崔随现, 胡丰泽 102
Determine of Steel Forging's Heating Time
简单件激光拼焊板成形中焊缝移动的研究·····陆文龙 105
Study on Weld Movement in Simple Part Forming with Laser Tailor Welded Blanks
汽车半轴挤镦复合工艺研究·····李元洪, 刘华, 刘丹, 等 108
Research on Extrusion-upsetting Process for Automobile Semi Axle
铝合金挤压成形过程及模具负载的数值模拟·····李森林 110
Numerical Simulation on Aluminum Extrusion Process and Die Load

焊接技术 Welding Technology

- 涂层对熔极气体保护焊实心焊丝熔滴过渡的影响·····齐彦昌, 彭云, 魏金山, 等 114
Effect of Coat on Droplet Transfer of Solid Wire by Gas Shielded Arc Welding
AZ31+Ce+Sb镁合金气保护钨极电弧焊工艺优化·····陈永, 刘茜, 张冠宇, 等 117
Optimization of GTAW Process for AZ31+1%Ce+1%Sb Alloy
基于Fuzzy-PID复合控制的焊缝自动跟踪系统的研究·····尹懿, 张晨曙, 叶建雄, 等 120
Study on Seam Tracking System Based on Fuzzy-PID Control
镁合金焊接技术的研究现状与展望·····胡耀波, 赵冲, 邓娟 124
Research Status and Prospects of Magnesium Alloys Welding Technology
穿孔型层流等离子弧焊接残余应力的数值模拟·····陈庆伟, 姚进 129
Numerical Simulation of Residual Stress of Plasma Arc Welding with Keyhole Laminar Flow
散热器电子束钎焊温度场和应力场的有限元分析·····李军民, 亢凤林, 陈芙蓉 133
Finite Element Analysis of Temperature Field and Stress Field in Radiator During Electron
Beam Brazing
双相不锈钢的焊接·····郭绪镇, 吴智信 136
Welding Capability of Duplex Stainless Steel
焊接热循环峰值温度对ASTM4130钢热影响区组织和性能的影响·····杨浩, 王勇, 韩涛, 等 140
Effect of Top Temperature of Welding Thermal Cycling on Microstructure and Properties
of ASTM4130 in Heat Affect Zone
大型复杂工件焊接的自动化解决方案·····黄金湘 143
Resolution Scheme on Welding Automation of Large-scale Complex Workpiece

读者若发现本刊有印刷、装订质量问题, 请寄回编辑部调换。

焊接技术 *Welding Technology*

- 基于SYSWELD软件的CO₂焊温度场数值模拟及实验验证·····黄彦彦, 凌泽民, 康惠 44
Numerical Simulation and Experimental Verification on Temperature Field of CO₂ Welding Based on SYSWELD Software
- 铝合金激光深熔焊接工艺参数对焊缝成形的影响·····胡敏英, 蔡金金, 李昕 49
Influence of Welding Parameters on Weld Shape in Laser Deep Penetration Welding for Aluminium Alloy
- 药芯埋弧焊丝W220熔敷金属的焊接热模拟研究·····李晓峰, 陈冰泉, 黄永溪 55
Study on Welding Thermal Simulation of Deposited Metal of Flux Cored Submerged Welding Wire W220
- GCr15与无磁钢异种金属激光焊接工艺研究·····赵建哲, 张冬云, 鹿莹, 等 55
Study on Laser Welding Process for GCr15 and Non-magnetic Austenitic Steel
- 双相钢S31803埋弧焊焊接接头组织和性能测试分析·····杨莉, 王仓 55
Testing and Analysis on Microstructure and Property of Joint for S31803 Duplex Stainless Steel Welded By SAW
- 工字型焊件中批量小缺陷的空间位置可视化·····石端虎, 刚铁, 杨双羊, 等 66
Visualization of Spatial Position for Bulk Small Defects in I-shaped Laser Weldments
- 材料焊接性分析系统的研究·····刘春梅 66
Research on Analysis System for Material Weldability

快速成形技术 *Rapaid Prototyping Technology*

- 汽车覆盖件模具的电弧喷涂快速制造工艺·····许巧玉 66
Technology of Electro Arc Spraying for Rapid Making Autobody Panel Die
- 基于直接激光金属烧结的金属粉末扫描路径实验研究·····凡进军, 赵剑峰, 肖猛 66
Research on Line Scanning Path Based on Direct Laser Metal Sintered Metal Powder

模具设计 *Die Design*

- V形90°自承位弯曲回弹角度可调节模具的研究与设计·····刘庚武 67
Study and Design of V-type 90° Holding Itself Bending Back Spring Adjustable Die
- BL-φ76-1铝合金型材挤压模具设计·····朱富春, 曹旭 67
Design of Extrusion Die for BL-φ76-1 Aluminum Alloy Profile
- 微波通讯波导管连续皱纹成形模的设计·····叶东, 黎传, 曹轶杰 67
Design on Continuous Wrinkle Forming Die of Microwave Communication Wave Guide
- 厚板小孔冲裁模具寿命的研究·····刘文霞 68
Study on Die Life of Blanking Die for Pinhole on Thick Plate

失效分析 *Failure Analysis*

- 深沟球轴承外圈冷辗扩破坏分析·····朱春东, 程孟彪 68
Analysis on Damage of Cold Rolling of Deep Groove Ball Bearing Outer-rings
- P20预硬塑料模具断裂原因分析·····任丽宏, 宗铎, 侯彩云, 等 68
Crack Failure Analysis of P20 Pre-hardened Plastic Die
- 模具高速钢SKH51裂纹成因分析·····韩克甲, 刘露, 赵晓辉 69
Analysis on Crack Forming Reason of Mold High-speed Steel SHK51
- 喷油器偶件崩裂断口分析·····戚元霞, 李剑, 韦依寒 69
Fracture Analysis on Crack of Injector Matching Parts

生产应用 *Application*

- 从冒口浇注的碳铸件铸造工艺CAE设计·····傅骏, 孟志祥, 王新颖 69
Casting Process CAE Design of Carbon Steel Castings Poured from Risker
- SUH409不锈钢三元催化器的半自动混合气体保护焊·····王怀建, 赵计平, 赵柏森 69
Semi-automatic Mix Shielded Welding for Three-way Catalytic Converter of SUH409 Stainless Steel
- 离心铸铁辊环端面缺陷的焊补·····姚建辉, 胡集峰, 李晓梅 69
Welding Repair of End Face Defects of Centrifugal Cast Iron Roller Ring

- 特殊形状热镀锌合金锭铸造工艺改进..... 赵云杰, 朱良, 陈昆, 等 ◀0▶
Improvement of Casting Process for Hot Dip Zinc Alloy
Ingot with Special Shape
15MnVR 钢锅炉蒸汽蓄热器的焊接工艺..... 王丽娟, 杨国辉 ◀0▶
Welding Technology of 15MnVR Steel Boiler
Steam Regenerator

广告索引 Advertisement

- 山东鲁阳集团..... 封面
南京长江工业炉有限公司..... 封二
南京新光英炉业有限公司..... 封三
沈阳恒丰实业有限公司..... 封四
青岛卓力机械有限公司..... 彩插 1
中船十二所有色铸造分厂..... 彩插 2
西安蓝辉机电制造有限公司..... 彩插 3
中船十二所..... 彩插 4
中船十二所..... 彩插 5
中船十二所..... 彩插 6
中船十二所..... 彩插 7
天津三英焊接有限公司..... 彩插 8
封面说明..... 前插 1
会议通知..... 50 页
开封现代工业炉有限公司..... 后插 1
中船十二所金属塑性成形研究室..... 后插 2
湖南中南炉业有限公司..... 后插 3
中船十二所铸造辅料研究室..... 后插 4
热加工论坛..... 后插 5
南京洲联新产品技术研究所..... 后插 6
丹阳华信工业炉有限公司..... 后插 7

HOT WORKING TECHNOLOGY

Sponsor: Hot Working Technology Institute of CSIC;
Shipbuilding Material Academic Committee of
CSNAME

Publisher: Editorial Office of Hot Working Technology
Chief Editor: ZHANG She-hui

Address: P.O.Box 44, Xingping, Shaanxi, China

Tel: (029)38316052, 38316271, 38316273

Fax: (029)38316267, 38316052

E-mail: rjggy@vip.163.com

Http: //www.rjggy.com; //sjgy.chinajournal.net.cn

Distributed: China International Book Trading Corporation
(P.O.Box 399, Beijing, China)

Code number: ISSN 1001-3814

本刊主要荣誉

中国期刊方阵双百期刊
全国优秀科技期刊
全国优秀国防科技期刊
中国船舶工业总公司优秀科技期刊
陕西省优秀科技期刊
全国中文核心期刊
中国科技核心期刊

收录本刊的主要数据库

中国科技论文统计与分析用刊
中国科学引文数据库
中国学术期刊综合评价数据库
中国期刊全文数据库
中国学术期刊(光盘版)
中文科技期刊数据库
中文科技期刊精品数据库
中国核心期刊(遴选)数据库
中国期刊网全文收录
万方数据 - 数字化期刊群全文收录
台湾华艺数位艺术数据库全文收录

本刊启事

本刊网络编辑平台已于2010年1月1日正式开启, 作者投稿、专家审稿、编辑加工等工作均在本编辑平台上进行, 本刊不再接收E-mail投稿, 请作者投稿时务必注意。

本刊投稿网址: www.rjggy.com

本刊声明

- 本刊印刷版和网络版之版权属《热加工工艺》杂志社所有。
- 为本刊撰写文稿、图片等, 从发表之日起, 其专有版权即归《热加工工艺》杂志社所有。请作者不要一稿多投。
- 本刊文章欢迎转载或翻译成其它语种发表, 但需征得编辑部书面同意。未经书面许可, 不得以任何方式全部或部分翻印、转载、网上发布或录入数据库。

读者若发现本刊有印刷、装订质量问题, 请寄回编辑部调换。

万方数据