

焊接学报

第 31 卷 第 11 期

2010 年 11 月 25 日出版

目 次

热处理对高强铝合金搅拌摩擦焊接头热力影响区组织和性能的影响	王希靖, 孙桂革	(1)
6013—T4 铝合金薄板搅拌摩擦焊热输入对焊缝成形及组织性能的影响	秦国梁, 张 坤, 张文斌, 等	(5)
Si 和 Cu 元素对铝—镀锌钢 GTAW 接头性能的影响	董红刚, 胡文金, 段玉平, 等	(9)
GH4169 合金真空扩散连接接头的组织和性能	李卓然, 于 康, 刘 兵, 等	(13)
变极性等离子电弧压力的径向分布	姜 祎, 徐滨士, 吕耀辉, 等	(17)
基于 X 射线数字化图像处理的双面焊缝缺陷检测	邵家鑫, 都 东, 朱新杰, 等	(21)
JFE980S 高强钢激光—电弧复合热源热模拟试验分析	王旭友, 滕 彬, 雷 振, 等	(25)
超声波塑料焊接机理	张宗波, 王晓东, 罗 怡, 等	(29)
JFE980S 高强钢焊接接头软化分析	雷 振, 王旭友, 滕 彬, 等	(33)
激光深熔焊中匙孔形成过程的动态模拟	汪任凭, 雷永平, 史耀武	(38)
碳对 C-1.5Mn-2.5Ni-0.5Cr-0.5Mo 高强钢焊缝金属组织和性能的影响	齐彦昌, 彭 云, 魏金山, 等	(41)
T 型焊接管节点应力集中系数数值分析	陈困海, 陈国明	(45)
基于被动视觉的焊接过程多信息检测系统	郑 军, 潘际豪	(49)
采用搅拌摩擦焊方法制备的非晶增强铝基复合材料的微观组织分析	刘 鹏, 史清宇, 霍玉双, 等	(53)
承载超声冲击提高 TC4 钛合金焊接接头的疲劳性能	赵小辉, 王东坡, 王惜宝, 等	(57)
低合金高强钢激光—电弧复合热源焊接冷裂纹敏感性分析	滕 彬, 李小宇, 雷 振, 等	(61)
碳化硼对电弧喷涂涂层性能的影响	魏 琪, 高 明, 李 辉, 等	(65)
时效处理对 2205 双相不锈钢焊接接头组织的影响	邹德宁, 韩 英, 范光伟, 等	(69)
Fe-Cr-C 耐磨堆焊合金磨粒磨损行为	王智慧, 贺定勇, 蒋建敏, 等	(73)
Super 304H 钢焊接接头的晶间腐蚀敏感性	李新梅, 邹 勇, 张忠文, 等	(77)
异种材料连接界面弱信号缺陷的提取与量化	高双胜, 迟大钊, 刚 铁	(81)
非等厚异种钢电阻点焊熔核成形的多元非线性回归模型	罗 怡, 李春天, 周 银	(85)
不同参数下振动焊接最高温度回归分析	卢庆华, 徐济进, 陈立功, 等	(89)
铝合金变极性等离子弧穿孔焊过程控制	韩永全, 杜茂华, 陈树君, 等	(93)
Al ₂ O ₃ 陶瓷/钢钎焊工艺	张万红, 李 宁	(97)
船舶板材边界条件对高频感应弯板成形的影响	周 宏, 李 敢, 朱红娟	(101)
基于迭代算法的焊接电弧发射系数重建	熊 俊, 张广军, 胡玉堂	(105)
交流电阻点焊中电极位移波动特征的分析	王先锋, 孟国香, 谢文华, 等	(109)
英文摘要		(I)

[期刊基本参数] CN23-1178/TG*1980*m*A4*112*zh*P*¥15.00*5800*28*2010-11

责任编辑: 齐秀滨

TRANSACTIONS OF THE CHINA WELDING INSTITUTION

Vol. 31 No. 11 November 2010

CONTENTS

- Effect of heat treatment on microstructure and properties of thermomechanical affected zone of high-strength aluminum alloy *WANG Xijing, SUN Guiping* (1)
- Effect of friction stir welding heat input on weld appearance and mechanical properties of 6013-T4 Al alloy joint *QIN Guoliang, ZHANG Kun, ZHANG Wenbin, et al* (5)
- Effects of Si and Cu additions on properties of dissimilar aluminum-galvanized steel weld *DONG Honggang, HU Wenjin, DUAN Yuping, et al* (9)
- Microstructure and properties of GH4169 vacuum diffusion bonded joint *LI Zhuoran, YU Kang, LIU Bing, et al* (13)
- Radial distribution of variable polarity plasma arc pressure *JIANG Yi, XU Binshi, LÜ Yaohui, et al* (17)
- Weld defect detection of double sides weld based on X-ray digitized image *SHAO Jiaxin, DU Dong, ZHU Xinjie, et al* (21)
- Analysis on laser-arc hybrid welded joint of high strength steel JFE980S by thermal simulation test *WANG Xuyou, TENG Bin, LEI Zhen, et al* (25)
- Ultrasonic welding mechanism of thermoplastics and its thermal process ... *ZHANG Zongbo, WANG Xiaodong, LUO Yi, et al* (29)
- Analysis on joint softening for JFE980S high strength steel *LEI Zhen, WANG Xuyou, TENG Bin, et al* (33)
- Numerical simulation of keyhole formation process in laser deep penetration welding *WANG Renping, LEI Yongping, SHI Yaowu* (38)
- Effect of carbon on microstructure and properties of C-1.5Mn-2.5Ni-0.5Cr-0.5Mo high strength steel weld metal *QI Yanchang, PENG Yun, WEI Jinshan, et al* (41)
- Numerical analysis on stress concentration factors of joints in welded T-tube *CHEN Tuanhai, CHEN Guoming* (45)
- Multi-information detection system of welding process based on passive vision *ZHENG Jun, PAN Jiluan* (49)
- Microstructure analysis of amorphous reinforced aluminum matrix composite prepared by friction stir welding *LIU Peng, SHI Qingyu, HUO Yushuang, et al* (53)
- Improvement of fatigue performance of TC4 Ti-alloy welded joints by loading ultrasonic peening *ZHAO Xiaohui, WANG Dongpo, WANG Xibao, et al* (57)
- Analysis on cold crack sensitivity of low alloy high strength steel weld by laser-arc hybrid welding *TENG Bin, LI Xiaoyu, LEI Zhen, et al* (61)
- Effect of boron carbide on properties of arc spraying coatings *WEI Qi, GAO Ming, LI Hui, et al* (65)
- Effect of aging treatment on microstructure of 2205 duplex stainless steel welds *ZOU Dening, HAN Ying, FAN Guangwei, et al* (69)
- Abrasive wear behavior of Fe-Cr-C hardfacing alloy *WANG Zhihui, HE Dingyong, JIANG Jianmin, et al* (73)
- Susceptibility to intergranular corrosion of Super 304H stainless steel welded joint *LI Xinmei, ZOU Yong, ZHANG Zhongwen, et al* (77)
- Extraction of weak signal for weld defect and its qualification in joint interface between dissimilar materials *GAO Shuangsheng, CHI Dazhao, GANG Tie* (81)
- Nonlinear multiple regression modeling of nugget formation for dissimilar steel welding with unequal thickness *LUO Yi, LI Chuntian, ZHOU Yin* (85)
- Regression analysis on maximum vibratory welding temperature at different parameters *LU Qinghua, XU Jijin, CHEN Ligong, et al* (89)
- Process control of variable polarity keyhole plasma arc welding for aluminum alloy *HAN Yongquan, DU Maohua, CHEN Shujun, et al* (93)
- Brazing process of alumina ceramic to steel *ZHANG Wanhong, LI Ning* (97)
- Influence of boundary condition on high frequency inducting plate bending *ZHOU Hong, LI Gan, ZHU Hongjuan* (101)
- Reconstruction of emission coefficients for welding arc based on iterative algorithm *XIONG Jun, ZHANG Guangjun, HU Yutang* (105)
- Analysis on electrode displacement fluctuation characteristics in AC resistance spot welding *WANG Xianfeng, MENG Guoxiang, XIE Wenhua, et al* (109)