

焊接学报

第32卷 第6期

2011年6月25日出版

目 次

Si ₃ N ₄ /Ni/TiAl 扩散连接接头界面结构及性能	曹 健,宋晓国,王义峰,等	(1)
埋弧焊方波电弧信号的指数衰减型阈值消噪	周漪清,薛家祥,何宽芳,等	(5)
铝-镁金属间化合物涂层的制备与分析	宋 刚,沈庆喜,刘黎明	(9)
多丝埋弧焊工艺条件对热源参数的影响	李培麟,陆 皓	(13)
电弧喷涂电弧燃烧过程分析	张甲英,徐滨士,戴连辉	(17)
Cr-Ni-Co 奥氏体堆焊材料的空泡腐蚀行为	雷玉成,秦敏明,徐桂芳,等	(21)
汽车散热器新型铝合金钎焊接头腐蚀行为的分析	王 冠,李远波,郭钟宁,等	(25)
X80 钢级管道环焊缝非均匀裂纹体断裂驱动力	熊庆人,闫 琳,张建勋,等	(29)
ASTM4130 钢再热粗晶热影响区组织及韧性分析	李立英,王 勇,李宏伟,等	(33)
12% Cr 铁素体不锈钢粗晶区组织转变和晶粒长大及析出相分析	郑淮北,叶晓宁,张雪峰,等	(37)
热塑性聚合物热熔接过程界面扩散行为分子动力学模拟	冯余其,罗 怡,孙屹博,等	(41)
TA1 匹配焊接材料及其焊接接头组织的细化机理分析	张 敏,吕金波,吕 娜,等	(45)
加氢反应器 T 接管结构优化	蒋文春,杨 滨,张玉财,等	(49)
焊缝形貌对电子束焊接残余应力分布的影响	付 玮,黄国刚,杨新华,等	(53)
爆炸焊接装药厚度可焊性窗口	史长根,洪 津,刘 影,等	(57)
GH4169 合金惯性摩擦焊接头温度场显式有限元数值模拟	李文亚,陈 亮,余 敏	(61)
真空电子束深熔焊接匙孔前沿蒸发传热分析模型	罗 怡,杜长华,许惠斌,等	(65)
磁场对双丝间接电弧焊熔滴过渡的影响	张顺善,邹 勇,邹增大	(69)
环保型碱性焊条药皮组分与熔敷金属成分相关性	孟工戈,储继君,栾敬岳,等	(73)
690 镍基合金真空感应熔炼脱硫	王吉孝,朱 琦,王德恕,等	(77)
石墨与铜真空钎焊接头的组织与强度	朱 艳,王永东,赵 霞	(81)
锡含量对 Bi5Sb 钎料铺展性能及抗拉性能影响	盛阳阳,闫焉服,唐 坤,等	(85)
基于焊接速度的遗传算法在装配中的应用	姚竞争,韩端锋,苗玉刚	(89)
核电用锆管特种电阻焊温度场的数值模拟	陈方泉,林祖伟,梁国伟,等	(93)
异种材质堆焊渗透裂纹和气孔形成机理	苏允海,唐兴涛,宋兴奎,等	(97)
超声-电弧复合焊接系统换能器优化设计	范阳阳,林三宝,黄嘉明,等	(101)
基于核 Fisher 判别分析的点焊质量评估	张宏杰,侯妍妍	(105)
基于人工神经网络的焊接接头力学性能预测系统	邓 欣,汪 超,魏艳红	(109)
书讯		(64)
英文摘要		(I)

[期刊基本参数] CN23-1178/TG * 1980 * m * A4 * 112 * zh * P * ¥15.00 * 5800 * 28 * 2011-06

责任编辑:周珍珍

TRANSACTIONS OF THE CHINA WELDING INSTITUTION

Vol. 32 No. 6 June 2011

CONTENTS

- Interfacial microstructure and properties of $\text{Si}_3\text{N}_4/\text{Ni}/\text{TiAl}$ joint bonded by diffusion-bonding *CAO Jian, SONG Xiaoguo, WANG Yifeng, et al* (1)
- A denoising method with exponential decay threshold for square arc signals in submerged arc welding *ZHOU Yiqing, XUE Jiaxiang, HE Kuanfang, et al* (5)
- Preparation and analysis of Al-Mg intermetallic coating *SONG Gang, SHEN Qingxi, LIU Liming* (9)
- Influence of multi-wire submerged arc welding process on heat source parameters *LI Peilin, LU Hao* (13)
- Arc burning process analysis in wire arc spray process *ZHANG Jiaying, XU Binshi, DAI Lianhui* (17)
- Cavitation erosion behavior of Cr-Ni-Co austenite deposited metal *LEI Yucheng, QIN Minming, XU Guifang, et al* (21)
- Research on corrosion of automobile condenser brazed with novel aluminium alloys *WANG Guan, LI Yuanbo, GUO Zhongning, et al* (25)
- Fracture driving forces of cracked girth welds with mechanical heterogeneity for X80 pipes *XIONG Qingren, YAN Lin, ZHANG Jianxun, et al* (29)
- Microstructure and toughness in reheated CGHAZ of ASTM4130 steel *LI Liying, WANG Yong, LI Hongwei, et al* (33)
- Microstructure transformation, grain growth and precipitated phase of 12% Cr ferritic stainless steel in coarse grain zone *ZHENG Huaibei, YE Xiaoning, ZHANG Xuefeng, et al* (37)
- Molecular dynamic simulation of interface diffusion behavior during melting joining of thermoplastic polymer *FENG Yuqi, LUO Yi, SUN Yibo, et al* (41)
- Welding material for TA1 and structure refining of its welded joint *ZHANG Min, LÜ Jinbo, LÜ Na, et al* (45)
- Structure optimization of T-nozzle in hydrogenated reactor *JIANG Wenchun, YANG Bin, ZHANG Yucui, et al* (49)
- Effects of weld profile on electron beam welding residual stress distribution *FU Wei, HUANG Guogang, YANG Xinhua, et al* (53)
- Weldability window of charge thick of explosive welding *SHI Changgen, HONG Jin, LIU Ying, et al* (57)
- Numerical simulation on temperature field of inertia friction welded GH4169 joint by explicit finite element analysis *LI Wenya, CHEN Liang, YU Min* (61)
- An analytical model of heat transfer by evaporation on front keyhole wall in vacuum electron beam welding *LUO Yi, DU Changhua, XU Huibin, et al* (65)
- Effect of applied magnetic field on metal transfer of twin-wire indirect arc welding *ZHANG Shunshan, ZOU Yong, ZOU Zengda* (69)
- Correlations between coating components and deposited metal compositions of environmental protective type basic electrode *MENG Gongge, CHU Jijun, LUAN Jingyue, et al* (73)
- Desulphurization of VIM 690 Ni-base alloy *WANG Jixiao, ZHU Qi, WANG Deshu, et al* (77)
- Microstructure and strength of graphite and copper brazed joints in vacuum *ZHU Yan, WANG Yongdong, ZHAO Xia* (81)
- Effect of content of Sn on spreading properties and tensile properties of Bi5Sb solder alloy *SHENG Yangyang, YAN Yanfu, TANG Kun, et al* (85)
- Application of genetic algorithm in assembling based on welding speed *YAO Jingzheng, HAN Duanfeng, MIAO Yugang* (89)
- Numerical simulation of special resistance welding temperature field of nuclear power zirconium tube *CHEN Fangquan, LIN Zuwei, LIANG Guowei, et al* (93)
- Mechanism of penetrating crack and gas porosity on dissimilar metal surfacing *SU Yunhai, TANG Xingtao, SONG Xinghui, et al* (97)
- Optimization design of ultrasonic transducer in ultrasonic-arc hybrid welding system *FAN Yangyang, LIN Sanbao, HUANG Jiaming, et al* (101)
- Quality estimation of resistance spot welding based on kernel fisher discriminant analysis *ZHANG Hongjie, HOU Yanyan* (105)
- Prediction system of mechanical properties of welded joints based on artificial neural network *DENG Xin, WANG Chao, WEI Yanhong* (109)