

专稿 Feature

14 纵扭超声振动辅助铣削60% SiC_p/Al多目标参数优化研究

牛秋林 戴福朋 荆露 王星华 刘俐鹏 肖玉斌
Optimization of Multi-Objective Parameters for Longitudinal-Torsional Ultrasonic Vibration Assisted Milling of 60% SiC_p/Al
NIU Qiulin DAI Fupeng JING Lu WANG Xinghua LIU Lipeng XIAO Yubin

封面文章 Cover Story

28 基于反向分段加工的整体叶盘变形控制技术研究

杨滨涛 刘明 柏廷越 陈帅 吴禹鹏 陈志同
Research on Deformation Control of Blisk Based on Reverse Segmented Machining
YANG Bintao LIU Ming BAI Tingyue CHEN Shuai WU Yupeng CHEN Zhitong

论坛 Forum

航空发动机热端部件成形 Hot-Section Component Forming of Aero-Engine

38 不同喷丸强度对FGH96 粉末高温合金表面完整性的影响研究

盖鹏涛 武赞华 曹子文 魏大盛 付雪松
Study on Effect of Different Shot Peening Intensities on Surface Integrity of FGH96 Powder Metallurgy Superalloy
GAI Pengtao WU Yunhua CAO Ziwen WEI Dasheng FU Xuesong

44 FGH4096粉末高温合金保载低周疲劳性能研究

鲁亮 张剑锋 徐瑶 杨璟
Study on Sustained Peak Low-Cycle Fatigue Performance of PM FGH4096 Superalloy
LU Liang ZHANG Jianfeng XU Yao YANG Jing

51 GH536 燃烧室帽罩粘性介质压力成形贴模性数值分析

滕瀚 蔡晋 阙田田 李威 杨踊
Numerical Analysis of Viscous Pressure Forming Mold Fit Performance of GH536 Combustion Chamber Cap
TENG Han CAI Jin KAN Tiantian LI Wei YANG Yong

58 IC10 高温合金大间隙钎焊接头组织与力学性能研究

邱嘉玉 丁宁 张元伟 毛唯 任新宇
Microstructure and Properties of Large Gap Brazing Joint of IC10 Superalloy
QIU Jiayu DING Ning ZHANG Yuanwei MAO Wei REN Xinyu

研究论文 Research

- 64 工艺参数对短电弧-电化学复合加工表面质量的影响研究
代向宇 胡国玉 周建平 张儒 王家豪
Effect of Process Parameters on Surface Quality of Short Electric Arc – Electrochemical Hybrid Machining
DAI Xiangyu HU Guoyu ZHOU Jianping ZHANG Ru WANG Jiahao
- 71 低共熔溶剂中乙醇添加对激光选区熔化GH4169 合金电化学抛光行为的影响
王超群 吴松全 杨义 王峰 黄爱军
Effect of Ethanol Addition in Eutectic Solvent on Electrochemical Polishing Behavior of GH4169 Alloy by Selective Laser Melting
WANG Chaoqun WU Songquan YANG Yi WANG Hao HUANG Aijun
- 79 干冰颗粒射流冷却铣削Inconel 718切削性能评价研究
辛明泽 王兵 刘战强 赵明 赵金富
Research on Cutting Performance Evaluation of Milling Process for Inconel 718 Assisted With Dry Ice Particle Jet Cooling
XIN Mingze WANG Bing LIU Zhanqiang ZHAO Ming ZHAO Jinfu
- 87 闭式叶环开槽电解加工流场仿真与阴极结构优化
左航 朱栋 李素乐 王福平 陈文亮
Flow Field Simulation and Cathode Structure Optimization of Closed Blade Ring Slotting Electrochemical Machining
ZUO Hang ZHU Dong LI Sule WANG Fuping CHEN Wenliang
- 93 复杂型腔类零件电火花加工电极运动轨迹搜索算法研究
刘雨婷 刘建勇 罗学科 李殿新 张慧杰 寇鹏远
Research on Search Algorithm of Electrode Motion Trajectory of Electric Discharge Machining for Complex Cavity-Type Parts
LIU Yuting LIU Jianyong LUO Xueke LI Dianxin ZHANG Huijie KOU Pengyuan
- 102 深小孔电解加工阴极侧壁绝缘层制备及试验
钟紫鹏 苏国康 李俊飞 王瑞祥 张永俊
Preparation and Experiment of Cathode Side Wall Insulation in Deep-Hole Electrochemical Machining
ZHONG Zipeng SU Guokang LI Junfei WANG Ruixiang ZHANG Yongjun