

专稿 Feature

- 14 薄壁弧板件非均匀刚度特性分析与加工过程刚度演变研究
—— 刘海波 梁润 丁悦 王鹏飞 李文杰 薄其乐 肖世宏 王永青
Characterization of Non-Uniform Stiffness and Stiffness Evolution in Machining Process of Thin-Walled Arc Plate
LIU Haibo LIANG Run DING Yue WANG Pengfei LI Wenjie BO Qile XIAO Shihong WANG Yongqing

封面文章 Cover Story

- 24 激光沉积制造TC4梯度组织的晶粒演化模拟和制备
—— 何波 王雨轩 杨光
Grain Evolution Simulation and Preparation of TC4 Gradient Structures Fabricated by Laser Deposition Manufacturing
HE Bo WANG Yuxuan YANG Guang

专题 Special Topic

装配技术 Assembly Technology

- 32 考虑多源变量的复合材料螺栓连接变形预测
—— 禹文材 刘禹铭 林清源 赵勇 邢宏文 汪玮
Deformation Prediction of Composite Bolted Joints Considering Multi-Source Variables
YU Wencai LIU Yuming LIN Qingyuan ZHAO Yong XING Hongwen WANG Wei
- 45 数字孪生驱动的转子装配精度动态预测与优化
—— 高越 刘萌 孙惠斌
Digital Twin-Driven Dynamic Prediction and Optimization of Rotor Assembly Accuracy
GAO Yue LIU Meng SUN Huibin
- 55 基于资源耦合网络的飞机总装排程优化算法研究
—— 贾鑫悦 周航 于天浩 法思雨
Research on Optimisation Algorithm for Aircraft Final Assembly Scheduling Based on Resource Coupling Network
JIA Xinyue ZHOU Hang YU Tianhao FA Siyu

近净成形 Near Net Shaping

- 65 高自由度双面渐进成形技术及装备研究进展
—— 邓涛 张泽雄 刘春梅 陶涛 苏红亮 陈军 黄亮 李燕乐 郭训忠 张虹桃
Research Progress on High-Degree-of-Freedom Double-Sided Incremental Forming Technology and Equipment
DENG Tao ZHANG Zexiong LIU Chunmei TAO Tao SU Hongliang CHEN Jun
HUANG Liang LI Yanle GUO Xunzhong ZHANG Hongtao
- 82 喷射成形Al-Mg-Zn-Cu合金的本构方程及热加工图研究
—— 冯诺 韩宝帅 张勇 曾元松 韩秀全 徐严谨
Study on Constitutive Equation and Thermal Processing Map of Spray-Formed Al-Mg-Zn-Cu Alloy
FENG Nuo HAN Baoshuai ZHANG Yong ZENG Yuansong HAN Xiuquan XU Yanjin
- 93 GH3044薄壁偏心喷管液压成形规律
—— 阴世杰 贺久强 刘伟 崔晓磊
Hydroforming Behavior of GH3044 Thin-Walled Eccentric Nozzle
YIN Shijie HE Jiuqiang LIU Wei CUI Xiaolei

焊接技术 Welding Technology

- 101 Ni基高熵钎料钎焊CMC/高温合金接头界面组织和力学性能
—— 陈修凯 陶军 卞红 宋晓国 侯金保 吕彦龙
Interfacial Microstructure and Mechanical Properties of CMC/Superalloy Joints Brazed With Ni-Based High-Entropy Filler
CHEN Xiukai TAO Jun BIAN Hong SONG Xiaoguo HOU Jinbao LÜ Yanlong
- 109 新型Ti-3773合金激光焊接接头力学性能与腐蚀性能的研究
—— 施绍森 赵甘泉 李壮 张道义 胡国贤 张雨时 王勇
Study on Mechanical Properties and Corrosion Resistance of Laser Welded Joint of Novel Ti-3773 Alloy
SHI Shaomiao ZHAO Ganquan LI Zhuang ZHANG Daoyi
HU Guoxian ZHANG Yushi WANG Yong
- 117 辅助热源搅拌摩擦焊技术研究现状
—— 赵尉辰 岳玉梅 赵华夏
Research Status of Friction Stir Welding Technology With Auxiliary Heat Source
ZHAO Weichen YUE Yumei ZHAO Huaxia