

## 专稿 Feature

- 14 防热结构仿形铺贴接触应力仿真和缺陷研究  
王显峰 罗兴宇 聂海平 瞿世雅 苗秋玉  
Contact Stress Simulation and Defect Study of Contour-Following Layups for Heat Protective Structures  
WANG Xianfeng LUO Xingyu NIE Haiping QU Shiya MIAO Qiuyu

## 封面文章 Cover Story

- 24 炭基电磁屏蔽复合材料的结构设计与应用进展  
邓卫斌 李铁虎 李昊 李立哲 常鹏  
Progress in Structural Design and Application of Carbon-Based Electromagnetic Shielding Composites  
DENG Weibin LI Tielu LI Hao LI Lizhe CHANG Peng

## 论坛 Forum

### 薄壁件成形 Thin-Walled Forming

- 42 AZ80镁合金等通道转角挤压的微观组织研究  
王春晖 刘逸伦 朱南洋 项杰 孙朝阳 李培培  
Study on Microstructure of AZ80 Magnesium Alloy Processed by Equal Channel Angular Pressing  
WANG Chunhui LIU Yilun ZHU Nanyang XU Jie SUN Chaoyang LI Peipei
- 50 支柱尺寸对钛合金点阵结构薄壁件温度变化和残余应力的影响  
蔡高参 胡宇恒 刘辉 汪小康 彭凯  
Effect of Pillar Size on Temperature Change and Residual Stress of Thin-Walled Titanium Alloy Lattice Structure  
CAI Gaoshen HU Yuheng LIU Hui WANG Xiaokang PENG Kai
- 58 基于机器学习的选区激光熔化过程熔池类别预测  
段现银 彭可为 朱鲲鹏 王齐胜 彭宽宝  
Prediction of Melt Pool Category in Selective Laser Melting Process Based on Machine Learning  
DUAN Xianyin PENG Kewei ZHU Kunpeng WANG Qisheng PENG Kuanbao
- 68 非圆截面/非对称板坯旋压技术研究现状及展望  
贾震 王诗琪 李运涛  
Research Status and Prospects of Spinning Technology for Non-Circular Section/Asymmetric Blanks  
JIA Zhen WANG Shiqi LI Yuntao

## 研究论文 Research

- 74 基于多约束规划算法的航空复合材料车间调度优化  
肖彪 张威 许鹏 赵正彩 陈燕  
Scheduling Optimization of Aircraft Composites Job-Shop Based on Multi-Constrain Programming Algorithm  
XIAO Biao ZHANG Wei XU Peng ZHAO Zhengcai CHEN Yan
- 82 Mg-Li合金超薄板脉冲激光焊接组织及性能研究  
强伟 吴思晨 曹龙 彭勇 路浩 路永新 高倩 王世清  
Research on Microstructure and Properties of Mg-Li Alloy Ultra-Thin Plate by Pulsed Laser Welding  
QIANG Wei WU Sichen CAO Long PENG Yong LU Hao LU Yongxin GAO Qian WANG Shiqing
- 88 基于激光振镜的三维曲线定位投影系统研究  
杨晗 张丽艳  
Research on 3D Curve Positioning and Projection System Based on Laser Galvanometer  
YANG Han ZHANG Liyan
- 98 考虑碳纤维纱线摩擦的编织复合材料制备卷取速度反解算法  
崔灿 樊臻 张森林  
Inverse Solution Algorithm for Take-Up Speed in Preparation of Braided Reinforced Composites Considering Carbon Fiber Yarn Friction  
CUI Can FAN Zhen ZHANG Senlin
- 107 激光冲击、喷丸及其复合强化对TC4钛合金高周疲劳性能的影响  
潘妃 王宁 朱贤皓 武秋宇 张显程 陆体文 周留成 潘鑫磊  
Effects of Laser Shock Peening, Shot Peening and Their Composite Strengthening on High-Cycle Fatigue Properties of TC4 Titanium Alloy  
PAN Fei WANG Ning ZHU Xianhao WU Qiuyu ZHANG Xiancheng LU Tiwen  
ZHOU Liucheng PAN Xinlei