

专稿 Feature

14 基于磁流变弹性体的新型管材成形技术研究进展

徐勇 李昊 郭训忠 张士宏 夏亮亮 胡胜寒
Research Progress on Novel Tube Forming Technology Based on Magnetorheological Elastomer

XU YONG LI Hao GUO Xunzhong ZHANG Shihong XIA Liangliang HU Shenghan

封面文章 Cover Story

24 型材构件六轴自由弯曲成形机理及成形质量控制研究

郭训忠 杨秋成 程诚 刘春梅 徐勇 白雪山 李光俊
Research on Six-Axis Free Bending Forming Mechanism and Forming Quality Control of Profile Components

GUO Xunzhong YANG Qiucheng CHENG Cheng LIU Chunmei XU Yong BAI Xueshan LIU Guangjun

论坛 Forum

管材成形 Tube Forming

36 GH4068合金管材成形工艺及力学性能研究

崔传勇 白英伯 张瑞 周子荐 周亦霄 孙晓峰
Study on Forming Process and Mechanical Properties of GH4068 Alloy Pipe

CUI Chuanyong BAI Yingbo ZHANG Rui ZHOU Zijian ZHOU Yizhou SUN Xiaofeng

44 航空液压钛合金导管组件制造关键技术应用

闫晶 张荣霞 吴为 曾元松 张艳 王守财
Application of Key Technologies on Manufacturing Process of Titanium Alloy Tube Assembly for Aeronautic Hydraulic Pressure System

YAN Jing ZHANG Rongxia WU Wei ZENG Yuansong ZHANG Yan WANG Shoucai

52 航空发动机叶片导流管的固态介质模锻成形技术

韩金全 王上朝 孟宝 万敏
Solid Medium Forging of Impingement Cooling Pipe for Aero-Engine Blade

HAN Jinquan WANG Shangzhao MENG Bao WAN Min

61 航空用6061铝合金T型管翻边成形工艺研究

陈大勇 徐勇 张士宏 程明 宋鸿武 邓泉水 黄新越 王晟诚
Investigation on Flanging Process of T-Shaped Tube With 6061 Aluminum Alloy Used in Aeronautical Field

CHEN Dayong XU Yong ZHANG Shihong CHENG Ming SONG Hongwu
DENG Quanshui HUANG Xinyue WANG Shengcheng

CONTENTS

目次

- 68 6061铝合金管件磁脉冲冲击介质胀形变形规律研究
徐俊瑞 李毅 王宇阳 赵雨东 王元丰 汪强昆 闫亮明
Research on Deformation Law of 6061 Aluminum Alloy Tube Formed by Medium Bulging Process With Magnetic Pulse Impacting
XU Junrui LI Yi WANG Yuyang ZHAO Yudong WANG Yuanfeng WANG Qiangkun YAN Liangming
- 75 GH4169高温合金薄壁管1D弯曲半径冷胀推弯成形研究
方继钊 郭伟 陈根发 杨坪川 邓涛 门向南
Study on Push-Bending Forming of GH4169 Superalloy Thin-Walled Tube With Small Bending Radius
FANG Jizhao GUO Wei CHEN Genfa YANG Pingchuan DENG Tao MEN Xiangnan
- 82 薄壁回转体零件粘性介质外压成形及失稳起皱过程研究
高铁军 任成林 刘凌云 王忠金
Research on Instability and Wrinkling Process of Viscous Outer Pressure Forming for Thin-Walled Tube Part
GAO Tiejun REN Chenglin LIU Lingyun WANG Zhongjin
- 89 管壁螺纹槽渐进成形的变形与缺陷分析
唐浩兴 杨帆 路胜海 刘龙琴 周银 郑宇 温彤
Thread Grooving Deformation and Defect Analysis of Thin-Walled Tubes During Incremental Forming
TANG Haoxing YANG Fan LU Shenghai LIU Longqin ZHOU Yin ZHENG Yu WEN Tong

研究论文 Research

- 94 大深宽比钛合金整体构件高效加工技术研究
牟建伟 李亮亮 孙国雁
Research on High Efficiency Machining of Titanium Alloy Integral Structural Parts With Large Depth-Width Ratio
MU Jianwei LI Liangliang SUN Guoyan
- 98 Invar钢模具双曲板材展开方法及软件实现
李玉杨 季文 张礼康 郭琪琪 胡勇 黄朝炎
Development Method and Software Realization of Invar Alloy Mould Plate With Double Curvature
LI Yuyang JI Wen ZHANG Likang GUO Qiqi HU Yong HUANG Chaoyan
- 104 民机机头系统脉动装配生产线规划与车间布局设计
冯益铭 姜楠 李波 李少波 王焰 王伟
Pulsating Assembly Line Planning and Workshop Layout Design of Civil Aircraft Nose System
FENG Yiming JIANG Nan LI Bo LI Shaobo WANG Yan WANG Wei
- 113 焊接导管法兰端面视觉检测工装的设计与标定
罗艺进 吕政阳 张丽艳
Design and Calibration of Visual Inspection Tool for Welded Pipe Flange End Face
LUO Yijin LÜ Zhengyang ZHANG Liyan