

中文核心期刊
中国科技核心期刊
RCCSE 中国核心学术期刊
机械工程领域高质量科技期刊 (T1 级)
中国科技期刊卓越行动计划 (梯队期刊)



ISSN 1001-4837

CN 34-1058/TH

压力容器

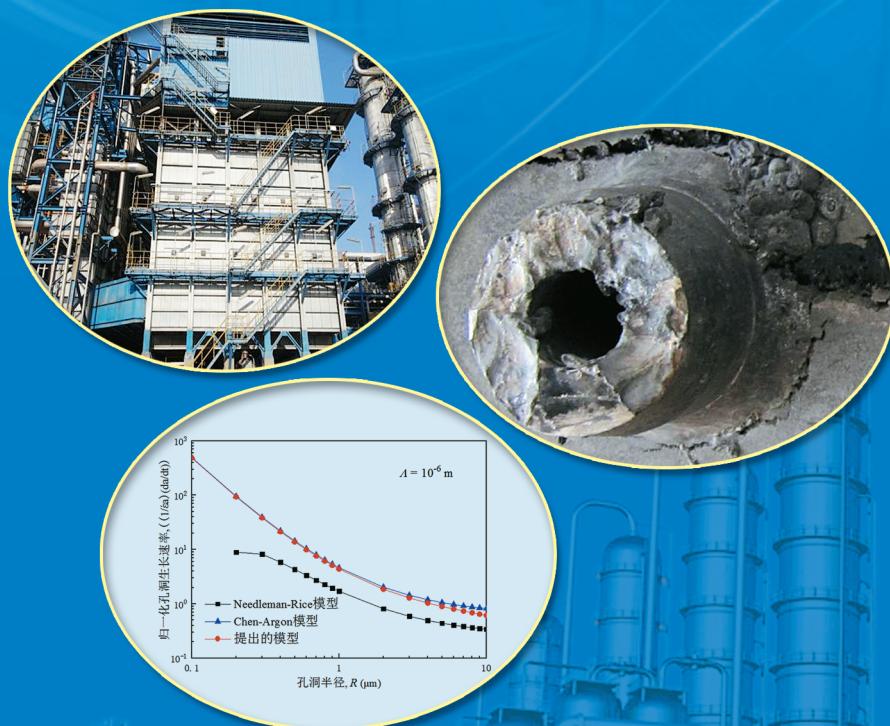
PRESSURE VESSEL TECHNOLOGY

第 6 期
第38卷 总第343期
2021年6月

中国科学技术协会主管 · 中国机械工程学会压力容器分会主办 · 合肥通用机械研究院有限公司承办

扩散与幂率蠕变联合控制的孔洞受约束长大模型研究

刘曼, 王冲, 郭晓峰, 巩建鸣



ISSN 1001-4837



目 次

● 试验研究

- 过热对 HP40Nb 炉管微观组织和力学性能的影响 周 阳, 沈阳成明, 巩建鸣, 耿鲁阳, 姜 勇, 唐建群 (1)
- 钨极氩弧焊热输入与面积稀释率关系的探讨 郭 豪, 徐 锐, 吕晓春, 陈佩寅, 陈 波, 霍树斌 (10)
- 锻 - 轧结合工艺试制 12Cr2Mo1VR 钢板 赵国昌, 侯敬超, 龙 杰, 吴艳阳, 袁锦程, 牛红星 (15)
- SUS304L 用高韧性不锈钢焊材选择与性能研究 闵晓峰, 王元兴, 吴梦先, 潘伍覃, 侯华东, 蒋 杰 (22)

● 设计计算

- 扩散与幂率蠕变联合控制的孔洞受约束长大模型研究 刘 昊, 王 冲, 郭晓峰, 巩建鸣 (28)
- 异径四通的塑性极限分析 张 鹏, 惠 虎, 黄 淞 (34)
- 冻结砂土层中埋地管道管土界面应力分析 王一民, 王凯勃, 徐 艳, 王尊策, 卢召红 (42)
- 大型商用飞机撞击载荷对核电厂管道的影响分析 梁建刚, 彭 建, 吴高峰 (48)
- 不同圆角半径对三通应力集中区域影响的量化分析 李海洋, 郭延军, 王 鲁, 许 辉, 郦晓慧 (53)

● 标准规范

- 压力容器低温低应力工况原理及其温度调整准则研究 崔庆丰, 陆戴丁, 陈 勇 (61)

● 安全分析

- X80M 管道环焊缝开裂原因分析 陈建国, 王泽军, 马青军, 党丽华, 魏玉顺, 韦 晨, 李智明, 张 智 (70)

● 制造与安装

- 甲醇制烯烃反应器模块化预制拆除及安装 李 刚, 顾安东, 闫柏辰, 程 军, 张 瑞, 陈乾坤 (79)

期刊基本参数: CN 34-1058/TH * 1984 * m * A4 * 86 * zh * P * ¥ 8.00 ** 12 * 2021-06

CONTENTS

Effect of overheating on the microstructures and mechanical properties of HP40Nb furnace tube

..... ZHOU Yang, FUYANG Chengming, GONG Jianming, GENG Luyang, JIANG Yong, TANG Jianqun (1)

Investigation on relations between heat input and dilution ratio for GTAW

..... GUO Xiao, XU Kai, LYU Xiaochun, CHEN Peiyin, CHEN Bo, HUO Shubin (10)

12Cr2Mo1VR steel plate developed by the process of forging and rolling combination

..... ZHAO Guochang, HOU Jingchao, LONG Jie, WU Yanyang, YUAN Jincheng, NIU Hongxing (15)

Research on the selection and performance of high toughness stainless steel welding material for SUS304L

..... MIN Xiaofeng, WANG Yuanxing, WU Mengxian, PAN Wuqin, HOU Huadong, JIANG Jie (22)

Research on a cavity growth model controlled by combined diffusion and power law creep deformation under constrained condition

..... LIU Min, WANG Chong, GUO Xiaofeng, GONG Jianming (28)

Plastic limit analysis of reducing cross

..... ZHANG Peng, HUI Hu, HUANG Song (34)

Stress analysis of pipe-soil interface of buried pipeline in frozen sand

..... WANG Yimin, WANG Kaibo, XU Yan, WANG Zunce, LU Zhaozhong (42)

Analysis of the impact load of large commercial aircraft on the pipeline of nuclear power plant

..... LIANG Jiangang, PENG Jian, WU Gaofeng (48)

Quantitative analysis of the influence of different fillet radius on the stress concentration area of tee

..... LI Haiyang, GUO Yanjun, WANG Lu, XU Hui, LI Xiaohui (53)

Study on the principle of low temperature and low stress condition of pressure vessels and temperature adjustment criterion

..... CUI Qingfeng, LU Daoding, CHEN Yong (61)

Analysis on cracking causes of X80M pipeline girth weld

..... CHEN Jianguo, WANG Zejun, MA Qingjun, DANG Lihua, WEI Yushun, WEI Chen, LI Zhiming, ZHANG Zhi (70)

Dismantling and installation of prefabricated modules of MTO reactor

..... LI Gang, GU Andong, YAN Baichen, CHENG Jun, ZHANG Rui, CHEN Qiankun (79)