

目 次

设计与研究

采动沉陷影响下埋地管道应力变形分析 ..... 王 浩,赵 潇(1)

海底管道悬空原因分析及防护方案对比 ..... 朱鹏鹏,甄 莹,曹宇光,史永晋(6)

温度和拉伸变形对双相不锈钢析出相的影响 ..... 李晓旭,张 盼,丛 鹏,李鹏程,付明东(11)

基于西气东输二线 X80 在役管道凹陷对称模型回弹分析..... 饶庆华(14)

地面矩形堆载对埋地管道纵向位移的影响分析 ..... 高业成,马树锋(17)

同心异径管的数值模拟及缺陷维护 ..... 刘思宇(22)

卷管铺设有限元模拟及管道力学响应分析 ..... 王彦辉,王 鑫(24)

控制与测量

相控阵检测技术在管道腐蚀检测中的应用 ..... 张 盼,付明东(27)

管件与设备

基于 FLUENT 的管壳式换热器数值模拟分析 ..... 王文松,刘 霜(30)

可控移热变换炉设备法兰结构的设计与应力分析 ..... 汪志福,李永泰(32)

波纹补偿器产品质量现状分析 ..... 马丽玲,李 茜(36)

测温元件保护套管对管道流体流态特征影响的模拟分析 ..... 苏苗印(39)

金属“C”形密封环密封性能有限元分析 ..... 宁志星,陈 平,汪朝阳(43)

腐蚀与防护

中俄东线管道热收缩带补口防腐层施工技术 ..... 刘 阳,李 华,谭 哲,朱 琳(48)

管道腐蚀缺陷的有限元分析 ..... 李 伟(52)

交流变电站对管道电磁干扰缓解措施研究 ..... 薛纪新,陈瑞瑞,刘君亮(56)

# Pipeline Technique and Equipment

2019 No.6( Sum.No.160) Bimonthly

## \* Main Contents \*

Stress Deformation Analysis of Buried Pipeline Under Mining Subsidence .....	WANG Hao, ZHAO Xiao(1)
Cause Analysis and Rectification Technology Comparison of Submarine Suspended Pipeline .....	
.....	ZHU Peng-peng, ZHEN Ying, CAO Yu-guang, SHI Yong-jin(6)
Effect of Tensile Deformation and Temperatures for Precipitate Phase of Duplex Stainless Steel .....	
.....	LI Xiao-xu, ZHANG Pan, CONG Peng, LI Peng-cheng, FU Ming-dong(11)
Springback Analysis of Symmetrical Model Based on X80 in Service Pipeline in Second Line of West-East Gas Pipeline .....	
.....	RAO Qing-hua(14)
Influence Analysis on Longitudinal Displacement of Buried Pipelines Caused by Ground Rectangular Pile Loads .....	
.....	GAO Ye-cheng, MA Shu-feng(17)
Numerical Simulation and Defect Maintenance of Concentric Reducer .....	LIU Si-yu(22)
Finite Element Simulation of Reel-lay Process and Mechanical Response Analysis of Pipe .....	WANG Yan-hui, WANG Xin(24)
Application of Phased Array Detection Technology in Pipeline Corrosion Testing .....	ZHANG Pan, FU Ming-dong(27)
Tube and Shell Heat Exchanger Numerical Simulation Analysis Based on FLUENT .....	WANG Wen-song, LIU Shuang(30)
Design and Stress Analysis of Equipment Flange Structure for Controllable Heat Transfer Furnace .....	WANG Zhi-fu, LI Yong-tai(32)
Product Quality Status Analysis for Corrugated Compensator .....	MA Li-ling, LI Qian(36)
Simulation and Analysis of Effects of Thermowell on Pipe Flow Characteristics .....	SU Miao-yin(39)
Finite Element Analysis of Sealing Performance of Metallic "C"-Ring .....	NING Zhi-xing, CHEN Ping, WANG Zhao-yang(43)
Construction Technology of Pipeline Heat-shrink Sleeve Joint Anti-corrosion Layer in Sino-Russian East Pipeline .....	
.....	LIU Yang, LI Hua, TAN Zhe, ZHU Lin(48)
Finite Element Analysis of Pipeline Corrosion Defects .....	LI Wei(52)
Study on Mitigation Measures for Electromagnetic Interference of AC Substation on Pipeline .....	
.....	XUE Ji-xin, CHEN Rui-rui, LIU Jun-liang(56)