

- ◆ 《中国科学引文数据库》来源期刊
- ◆ 《中国学术期刊综合评价数据库》来源期刊
- ◆ 《中文科技期刊数据库》全文收录期刊

- ◆ 《中国核心期刊(遴选)数据库》收录期刊
- ◆ 《中国期刊全文数据库》收录期刊
- ◆ 《中国期刊网》《中国学术期刊(光盘版)》全文收录期刊



创建绿色家园

全面腐蚀控制

TOTAL CORROSION CONTROL



南通星球石墨设备有限公司

Nantong Xingqiu Graphite Equipment Co., Ltd.



中国大型石墨化工设备研发生产基地



地址：江苏省如皋市九华镇华兴路8号
 传真：0513-87577322

邮编：226541 防腐热线：4001-000-129
 网址：www.ntxingqiu.com

ISSN 1008-7818



9 771008 781147
 万方数据

中国工业防腐蚀技术协会主办



全面腐蚀控制杂志社出版

06

2020.VOL.34

1986年创刊·公开发行

全面腐蚀控制

CONTENTS 目次

技术篇

【专论】

- 1 水下穿越管道腐蚀检测新方法 & 案例分析
/陈更 邢颂
- 4 某核电厂疏水阀阀体内部冲蚀原因分析
/富敏 张维 蒋益丰 刘洪群
- 7 核电厂埋地管道土壤腐蚀性评价及应用
/章强 杨添 魏松林 刘朝 但体纯 陈银强

【经验交流】

- 12 住宅小区建筑电气设计及节能措施分析
/梁言
- 14 长输管道定向钻穿越施工技术和管理分析
/王忠孝
- 16 油田地面工程集输系统腐蚀控制技术探讨
/周建军
- 18 油气长输管道中阴极保护技术的应用分析
/苏杰臣
- 20 油气集输系统内腐蚀信息融合监控技术
/李雪静

万方数据

- 22 石油化学装置保温结构完整性管理
/王焕焕 张耀 夏渊 官自超 尚跃再
朱国利 徐琳 朱文胜 廖伍彬
- 28 石油产品密度测定影响因素及控制
/李红
- 31 萨南油田管道距辅助阳极地床不同距离下的极化
保护效果研究
/杨慧
- 33 浅析山地区5万立浮顶原油储罐拆除的研究
/贾洪泽
- 35 红外线热成像在压水堆核电站二回路阀门壁厚
检查中的应用
/文杰 边春华 李天宇 刘洪群 卢祺
- 40 管道完整性管理 (PIM) 进展
/郑权明 张合平
- 45 公路桥梁加固施工技术与质量控制
/王馨刚
- 47 工业锅炉水质常规化验方法分析
/范洪远 苏傲然

49 给水排水管道工程管材的应用策略

/易莉雅

51 钢制储罐防腐施工质量问题的预防途径

/于明京

53 滨海电厂鼓型滤网阴极保护系统故障分析与处理

/尤 涛 杨树凯

58 垂直气井生产管柱冲蚀模型仿真分析

/许瑞琪

63 埋地钢制管道杂散电流的检测与防护技术

/巴爱叶 邢 颂

67 物资采购质量精细化管理措施分析

/胡敦淼

69 土建工程施工中与其它专业施工有效配合分析

/王闻辉

72 土建钢筋混凝土施工技术分析

/付志春

75 浅析油田基建工程现场施工管理的有效性措施

/韩金涛

77 建筑工程管理创新及绿色施工管理方法探析

/郑玉芳

80 电气施工与土建环节的配合要点分析

/闫 彬

82 PC管理模式在天然气长输管道建设中的应用

/马世滨

85 储油罐防腐施工方法及施工质量控制途径探讨

/马海军

【腐蚀研究】

87 热水锅炉金属腐蚀及防腐途径

/曹远斌

89 浅析天然气管道防腐研究及方法

/卢 闯

91 浅析防腐技术在管道施工中的应用

/朱 闯

93 电气设备静电防护及防腐问题探讨

/张宇翔

95 浅述供热管线腐蚀原因与防护措施

/毕 磊

97 海上风电防腐设计

/曾 伟

103 供热管线腐蚀原因与防护措施探析

/王 振

TOTAL CORROSION CONTROL

(Monthly)

Vol. 34 No.06 (Serial No. 243)

JUN 28, 2020

CONTENTS

• Monograph •

- New Method and Case Analysis of Corrosion Detection for Underwater Corrosion Pipeline CHEN Geng, XING Song (1)
The Reason Analysis of Erosion on Drain Valve for a Nuclear Power Plant
.....FU Min, ZHANG Wei, JIANG Yi-feng, LIU Hong-qun (4)
Application and Evaluation of Soil Corrosivity for a NPP Buried Pipes
.....ZHANG Qiang, YANG Tian, WEI Song-lin, LIU Zhao, DAN Ti-chun, CHEN Yin-qiang (7)

• Experience Exchange •

- Electrical Design and Energy Saving of Residential Buildings..... LIANG Yan (12)
Construction Technology and of Long-distance Pipeline Directional Drilling Crossing..... WANG Zhong-xiao (14)
Discussion on Corrosion Control Technology of Oil Field Surface Engineering Gathering System ZHOU Jian-jun (16)
Application Analysis of Cathodic Protection Technology in Oil and Gas Long-distance PipelineSU Jie-cheng (18)
Corrosion Information Fusion Monitoring Technology in Oil and Gas Gathering and Transportation System..... LI Xue-jing (20)
Integrity Management of Thermal Insulation Structure in Petrochemical Plant WANG Huan-huan, ZHANG Yao,
.....XIA Yuan, GUAN Zi-chao, SHANG Yue-zai, ZHU Guo-li, XU Lin, ZHU Wen-sheng, LIAO Wu-bin (22)
Factors Influencing the Determination of Petroleum Product Density and Their Control LI Hong (28)
Study on Polarization Protection Effect of Different Distance Between Pipeline and Auxiliary Anode Ground Bed
..... YANG Hui (31)
Study on Removal of 50,000 Vertical Floating Roof Crude Oil Storage Tank in Mountain Area JIA Hong-ze (33)
Application of Infrared Thermography in Valve Wall Thickness Inspection of Secondary Circuit in PWR Nuclear Power Plant
..... WEN Jie, BIAN Chun-hua, LI Tian-yu, LIU Hong-qun, LU Qi (35)
Progress in Pipeline Integrity Management(PIM) ZHENG Quan-ming, ZHANG He-ping (40)
Discussion on Construction Technology and Quality Control of Bridge reinforcement..... WANG Xin-gang (45)
Analysis of Conventional Test Methods for Industrial Boiler Water QualityFAN Hong-yuan, SU Ao-ran (47)
The Application Strategy of Pipe Material in Water Supply and Drainage Pipeline Engineering..... YI Li-ya (49)
Preventive Measures for Quality Problems in Anticorrosion Construction of Steel Tanks YU Ming-jing (51)
Failure Analysis and Improvements of Cathodic Protection System of Drum Strainer in Coastal Power Plant
..... YOU Tao, YANG Shu-kai (53)
Simulation Analysis on The Erosion Model of Production String in Vertical Gas Well XU Rui-qi (58)
Detection and Protection Technology of Stray Current in Buried Steel Pipeline..... BA Ai-ye, XING Song (63)
Analysis of Refined Management Measures for Material Procurement Quality HU Dun-miao (67)
Analysis of Effective Cooperation with Other Professional Construction in Civil Engineering Construction..... WANG Wen-hui (69)
Analysis of Construction Technology of Civil Reinforced Concrete FU Zhi-chun (72)
On the Effective Measures of On-site Construction Management of Oilfield Capital Construction Project HAN Jin-tao (75)
Analysis of Innovation in Construction Engineering Management and Green Construction Management Methods
..... ZHENG Yu-fang (77)
Analysis of The Main Points of Coordination Between Electrical Construction and Civil Construction..... YAN Bin (80)
Application of PC Management Mode in the Construction of Long-Distance natural Gas Pipeline MA Shi-bin (82)
Discussion on Anticorrosion Construction Method and Construction Quality Control of Oil Tank MA Hai-jun (85)

• Corrosion Research •

- Metal Corrosion of Hot Water Boiler and Anti-corrosion Way CAO Yuan-bin (87)
Study and Method of Natural Gas Pipeline Anticorrosion LU Chuang (89)
Application of Anticorrosion Technology in Pipeline Construction ZHU Chuang (91)
Discussion on Electrostatic Protection and Anticorrosion of Electrical Equipment ZHANG Yu-xiang (93)
Discussion on Corrosion Causes and Protection Measures of Heat Supply Pipeline..... BI Lei (95)
Anti-Corrosion Design of Offshore Wind Power ZENG wei (97)
Analysis of Corrosion Causes and Protection Measures of Heating Pipeline WANG Zhen (103)

Sponsored by China Industry Anticorrosion Technology Association (CIATA)
Edited and Published by the Editorial Department of TOTAL CORROSION CONTROL
Honorary Chairman of Editorial Committee: PAN Lian-sheng
Chairman of Editorial Committee: KE Wei
Editor in Chief: REN Zhen-duo (Concurrently)
Add: C-509, Yayunhaoting, No.9 Xiaoying Rd, Chaoyang Dist., Beijing, China
Post Code: 100101
Tel: (8610) 64896415 64896750
Fax: (8610) 64896415
Fixed Price: US\$ | 6.00
Web site: <http://www.ciata-tcc.com>