

- ◆ 《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

唯君题



TOTAL CORROSION CONTROL

以中国智慧引领全球 筑起腐蚀控制钢铁长城

“中国工业防腐蚀技术协会”更名为“中国腐蚀控制技术协会”



ISSN 1008-7818

9 771008 781147

中国腐蚀控制技术协会主办



全面腐蚀控制杂志社出版

04

2022.VOL.36

1986年创刊·公开发行

全面腐蚀控制

CONTENTS 目次

技术篇

【专论】

- 1 页岩气集输管道生物膜的形成及腐蚀行为研究
/吴虹宇 谭鹏 刘汉军 邱海燕 兰贵红 王顺慧

【经验交流】

- 10 工程量清单计价模式下园林工程造价管理策略
/田甜
- 12 全预制装配整体式剪力墙结构住宅施工技术分析
/张文欣
- 14 岩土工程勘察中的综合勘察技术研究
/李大龙
- 16 长输管道安全距离准则确定方法
/谢辉 陈海翔 刘海龙 刘俊芹
- 19 大连机场某输油管道阴极保护整改及效果评价
/刘晓龙 张福忠
- 22 金属材料焊接中超声无损检测技术的应用
/丛思超
- 24 渤海B油田产出液硫酸盐还原菌治理研究
/戴俊峰 张国欣 陆原 张勇 王永军
- 31 油田金属管道和容器腐蚀原因分析及对策
/南松玉
- 33 油田房屋结构设计中的建筑结构设计优化探讨
/张丹丹

- 36 油田地面建设工程的施工项目管理策略分析
/段笑冰
- 38 油气田建设工程无损检测常见质量问题分析
/张明明
- 41 土木建筑施工中混凝土浇筑技术措施分析
/田妍
- 43 提升油田生产运行管理相关探索
/吴晔馨
- 46 提升油田地面建设标准化管理水平措施探讨
/原婷
- 48 区域阴极保护的防腐及维护分析
/赵云辉
- 51 强化油田基建工程施工安全管理的有效途径分析
/张健
- 54 建筑工程管理创新与绿色施工管理方法分析
/邢二涛 聂红培
- 57 建筑电气施工注意事项及计量控制探讨
/贲放
- 59 基建工程管理中的常见问题与改进
/高广镇
- 62 关于自来水管道的内腐蚀对管网水质的影响分析
/刘磊
- 64 道路桥梁工程施工质量管理与控制探讨
/岳洪兴

- 67 几种涂层在川西高原峡谷地区初期老化行为
/李伟光 潘吉林 肖盼
- 【腐蚀研究】**
- 73 地面集输管线腐蚀穿孔分析及防治措施分析
/刘 亮
- 75 油田地面工程施工管理中存在的问题及
针对性处理策略
/卓 越
- 77 供热管道及设备的保温与防腐措施探讨
/李昊泽
- 79 地面工程设备安装与集输管道施工技术
/蔡玉华
- 81 浅析地面管线腐蚀及结垢原因及处理方法
/欧阳彪
- 83 低粘度无溶剂环氧防腐涂料在油田生产中的应用
/于海佳
- 85 油田焊接钢质管道在线挤涂防腐的注意事项
/殷兆龙
- 87 大型成品油储罐综合防腐蚀技术分析
/王 冰
- 89 大型原油储罐的防腐优化设计探讨
/刘圣光
- 91 燃气埋地管道防腐技术分析
/何 鑫
- 93 大型储罐防腐施工工艺分析
/杜 凯
- 95 工业建筑防腐蚀工程设计策略
/相晶磊
- 97 油气管线防腐管运输设备设计策略
/张学峰
- 99 天然气长输管道防腐及运输风险防控策略
/石志超
- 101 浅析重油加氢装置空冷器管束的腐蚀与防护
/孙 昱 孙昌达 吕 驰
- 105 油田钢筋砼污水（油）池的腐蚀因素
及解决方案
/梅 楠
- 107 油田地面集输管线的防腐管理措施研究
/李建松
- 109 油田地面工程管道防腐施工技术应用分析
/刘文庆
- 111 沿海电厂钢结构防腐工艺应用探究
/廖任重
- 116 图像处理技术在腐蚀评估中的应用
/刘洪群 张彦召 刘 忠
- 121 基于PCA-SVM的油气管道腐蚀速率预测
技术探讨
/刘立新
- 123 关于储油罐的腐蚀与防腐措施探讨
/高 阳
- 126 抽油杆材料在含CO₂高温高压环境中的腐蚀
规律研究
/齐光峰 李 风 张 瑾 时 宪
- 131 X65管线钢在不同硫化氢浓度下的腐蚀规律
/陈海兵 于海涛

TOTAL CORROSION CONTROL

(Monthly)

Vol. 36 No.04 (Serial No. 265)

APR 28, 2022

CONTENTS

• Monograph •

Study on Biofilm Formation and Corrosion Behavior of Shale Gas Gathering and Transportation Pipeline
.....WU Hong-yu, TAN Peng, LIU Han-jun, QIU Hai-yan, LAN Gui-hong, WANG Shun-hui (1)

• Experience Exchange •

Landscape Engineering Cost Management Strategy under The Mode of Bill of Quantities Valuation..... TIAN Tian (10)
Analysis on Construction Technology of Fully Prefabricated Integral Shear Wall Structure Residence ZHANG Wen-xin (12)
Study on Comprehensive Investigation Technology in Geotechnical Engineering Investigation LI Da-long (14)
The Determination Method of Safety Distance Criterion of Long Distance Pipeline
.....XIE Hui, CHEN Hai-xiang, LIU Hai-long, LIU Jun-qin (16)
Cathodic Protection Rectification and Effect Evaluation of a Certain Oil Pipeline in China Aviation Oil
.....LIU Xiao-long, ZHANG Fu-zhong (19)
Application of Ultrasonic Nondestructive Testing Technology in Welding of Metallic Materials CONG Si-chao (22)
Study on Treatment of Sulfate-reducing Bacteria in Produced Fluid of B Oilfield in Bohai Sea
.....DAI Jun-feng, ZHANG Guo-xin, LU Yuan, ZHANG Yong, WANG Yong-jun (24)
Cause analysis and Countermeasures of Corrosion of Oilfield Metal Pipelines and Containers NAN Song-yu (31)
Discussion on Optimization of Building Structure Design in Oilfield House Structure Design ZHANG Dan-dan (33)
Analysis on Construction Project Management Strategy of Oilfield Surface Construction Project DUAN Xiao-bing (36)
Analysis of Common Quality Problems in Nondestructive Testing of Oil and Gas Field Construction Projects ZHANG Ming-ming (38)
Analysis of Concrete Pouring Technical Measures in Civil Construction TIAN Yan (41)
Exploration on Improving Oilfield Production and Operation Management WU Ye-xin (43)
Discussion on Measures to Improve the Standardized Management Level of Oilfield Surface Construction..... YUAN Ting (46)
Corrosion Prevention and Maintenance Analysis of Regional Cathodic Protection ZHAO Yun-hui (48)
Analysis of Effective Ways to Strengthen Construction Safety Management of Oilfield Capital Construction EngineeringZHANG Jian (51)
Analysis of Construction Engineering Management Innovation and Green Construction Management Methods
.....XING Er-tao, NIE Hong-pei (54)
Discussion on Precautions and Measurement Control of Building Electrical Construction BEN Fang (57)
Common Problems and Improvement in Capital Construction Project Management.....GAO Guang-zhen (59)
Analysis on the influence of internal corrosion of tap water pipeline on the water quality of pipe network LIU Lei (62)
Discussion on Construction Quality Management and Control of Road and Bridge Engineering YUE Hong-xing (64)
Initial Aging Behavior of Several Coatings in Western Sichuan Alpine Gorge..... LI Wei-guang, PAN Ji-lin, XIAO Pan (67)

• Corrosion Research •

Analysis on Corrosion and Perforation of Pipeline and Its Prevention MeasuresLIU-Liang (73)
Problems Existing in Oilfield Surface Engineering Construction Management and Corresponding Treatment Strategies..... ZHUO-Yue (75)
Discussion on Heat Preservation and Anti-corrosion Measures of Heating Pipes and Equipment.....LI Hao-ze (77)
Ground Engineering Equipment Installation and Pipeline Construction Technology.....CAI Yu-hua (79)
Analysis of Corrosion and Scaling Causes and Treatment Methods of Ground Pipelines.....OU Yang Biao (81)
Application of Low Viscosity Solvent-Free Epoxy Anticorrosive Coating in Oilfield Production YU Hai-jia (83)
Precautions for on Line Extrusion Coating Anticorrosion of Oilfield Welded Steel Pipeline YIN Zhao-long (85)
Comprehensive Anti Corrosion Technology Analysis of Large Product Oil Storage Tank.....WANG Bing (87)
Discussion on Anticorrosion Optimization Design of Large Crude Oil Storage Tank LIU Sheng-guang (89)
Analysis of Anticorrosion Technology for Buried Gas Pipeline.....HE Xin (91)
Analysis on Anticorrosion Construction Technology of Large Storage Tank DU Kai (93)
Anti Corrosion Engineering Design Strategy of Industrial Buildings XIANG Jing-lei (95)
Design Strategy of Anticorrosive Pipe Transportation Equipment for Oil and Gas Pipeline ZHANG Xue-feng (97)
Anti Corrosion and Transportation Risk Prevention and Control Strategy of Long-Distance Natural Gas Pipeline..... SHI Zhi-chao (99)
Corrosion and Protection of Air Cooler Tube Bundle in Heavy Oil Hydrogenation Unit SUN Yu, SUN Chang-da, LV Chi (101)
Corrosion Factors and Solutions of Reinforced Concrete Wastewater (Oil) Tank in Oil Field.....MEI Nan (105)
Research on Anti-corrosion Management Measures for Surface Gathering and Transportation Pipelines in Oil FieldsLI Jian-song (107)
Application Analysis of pipeline Anti-corrosion Construction Technology in Oilfield Surface Engineering LIU Wen-qing (109)
The Study on Application of Anticorrosion Processes for Steel Structure of Coastal Power PlantsLIAO Ren-zhong (111)
Application of Image Processing Technology in Corrosion Evaluation LIU Hong-qun, ZHANG Yan-zhao, LIU Zhong (116)
Prediction Technology of Oil and Gas Pipeline Corrosion Rate Based on PCA-SVM..... LIU Li-xin (121)
Discussion on Corrosion and Anticorrosion Measures of Oil Storage Tank.....GAO Yang (123)
Research on the Corrosion Law of Sucker Rod Materials in CO₂ High Temperature and High Pressure Environment
.....QI Guang-feng, LI Feng, ZHANG Jin, SHI Xian (126)
Corrosion Law of X65 Pipeline Steel Under Different Concentration of Hydrogen SulfideCHEN Hai-bing, YU Hai-tao (131)

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>