



祝贺：

中国工业防腐蚀技术协会

成立 35 周年

ISSN 1008-7818



9 771008 781147
万方数据

全面腐蚀控制

CONTENTS 目次

技术篇

【腐蚀控制工程全生命周期理论研究、应用及其标准化】

- 2 全球腐蚀控制工程领域绽放的大国智慧之花
——回眸国际腐蚀控制工程全生命周期标准化技术委员会之成立

【专论】

- 18 注水泵密封环腐蚀原因分析
/曲伟首
- 22 SEBF涂层技术在船舶通海系统设备上的应用
/刘洪生 李晓东 曹海娇
- 28 导管架平台外加电流阴极保护系统缩比模型模拟研究
/王 辉 王廷勇 许 实 王海涛
- 34 350MW湿冷燃煤供热机组循环冷却水生化处理试验研究
/廖洪峰 刘明海 冯培峰 王金灿 冯宝泉
刘政修 郭 强 赵潇然

【经验交流】

- 42 中国石油天然气总公司胜利石油管理局胜利发电厂热力系统
化学补给水处理反渗透系统科学技术可行性研究
/贾玉成
- 44 长输管道凹陷检测评价技术现状综述
/林禄彬 应 未 杨 丽 常 通

- 47 油气管道施工工程的控制与管理分析
/曹建辉
- 49 现代市政道路给排水管道工程的设计与施工探讨
/王玉丽
- 51 土建施工中防水防渗施工技术研究
/丁 琨
- 53 人防工程建筑设计与地下空间利用探讨
/张雪娇
- 55 热力管网水力失调的表现与解决措施分析
/古利明
- 57 秦山核电海水系统防污漆的应用
/江 锋 赵卫东 刘洪群
- 61 建筑工程施工图预算与施工预算的对比探讨
/孟海燕
- 63 辅助阳极的分布对导管架阴极保护电位的影响研究
/李 辉 陈亚林 贺海龙 韩 冰 李向阳
许 彪 廖卓伟 尹鹏飞 李金梅 郑志建
- 71 论如何做好施工安全管理环节管控
/王 喜
- 75 管道阴极保护远传与杂散电流排除技术探究
/路雪松

77 现代高效办公场所设计实践

/胡佩娟 张雷

79 油田地面建设设备安装与集输管道施工技术探讨

/张垒

82 压力容器制造过程中焊接质量的控制措施探析

/王智远

84 天然气管道工程施工建设质量管理探析

/周祥君

87 浅析基建施工过程中的管理与协调

/苏伟

89 配电线路与电气设备可靠连接探析

/戚玉良

92 基建施工现场7S管理模式探讨

/范继国

94 防腐管材在油田集输工程中的应用探析

/王志刚

97 地面建设设备安装与集输管道施工分析

/汪涛 赵国娟

【腐蚀研究】

100 油田输油管道防腐的探讨

/白坤

102 油气金属管道的防腐蚀技术分析

/张军

104 消防管道氧腐蚀防范与治理的策略

/刘洪建

106 埋地输油管道外防腐层破损处的检测策略

/张鼎成

108 建筑给排水管材选择及管道防腐探究

/邓克宁

110 给水管道腐蚀原因及防护措施探讨

/张鸿鹏

112 高寒地区测量标石防腐问题的分析

/胡东梅

114 钢结构建筑防腐保护工程的质量控制途径

/王克诚

116 大型外浮顶储罐防腐施工工艺

/王一平

118 催化裂化装置分馏系统腐蚀与防护

/郝新焕

123 渤海某油田回注井油管连接件腐蚀分析

/张浩

128 崇启大桥钢管桩使用现状及防腐蚀效果评价

/瞿彧 黄明智 刘永柱 程明山

133 变电站高压电气设备锈蚀情况及防腐技术分析

/曲星尧

TOTAL CORROSION CONTROL

(Monthly)

Vol. 35 No.03 (Serial No. 252)

MAR 28, 2021

CONTENTS

• Monograph •

- Corrosion Reason Analysis for Sealing Ring of Water Injection Pump.....QU Wei-shou (18)
Application of SEBF Fusion Bonded Epoxy Coating Technology in Marine System Equipment
.....LIU Hong-sheng, LI Xiao-dong, CAO Hai-jiao (22)
Research on Physical Scale Model of ICCP Systems for Jacket Platform
.....WANG Hui, WANG Ting-yong, XU Shi, WANG Hai-tao (28)
Experimental Study on the Treatment of Water-Cooling Water in 350MW Coal-fired Heating Unit
.....LIAO Hong-feng, LIU Ming-hai, FENG Pei-feng, WANG Jin-can, FENG Bao-quan, LIU Zheng-xiu, GUO Qiang, ZHAO Xiao-ran (34)

• Experience Exchange •

- Science and Technology Feasibility Research On Reverse Osmosis System of China Petroleum and Gas General Corporation
Shengli Petroleum Administration Bureau Shengli Power Plant Thermal System Chemical Supplement Water Treatment
.....JIA Yu-cheng (42)
Overview of Detection and Evaluation Technology for Dent in Long Distance Pipeline
.....LIN Lu-bin, YING Wei, YANG Li, CHANG Tong (44)
Control and Management Analysis of Oil and Gas Pipeline Construction Project.....CAO Jian-hui (47)
Discussion on the Design and Construction of Modern Municipal Road Water Supply and Drainage Pipeline Engineering
.....WANG Yu-li (49)
Research on Waterproof and Anti-seepage Construction Technology in Civil Construction.....DING Kun (51)
Discussion on Architectural Design and Underground Space Utilization of Civil Air Defense Project.....ZHANG Xue-jiao (53)
Analysis on the Performance of Hydraulic Maladjustment of Heat Pipe Network and Its Solutions.....GU Li-ming (55)
Application of Antifouling Paint in Sea Water System of Qinshan Nuclear Power Plant
.....JIANG Feng, ZHAO Wei-dong, LIU Hong-qun (57)
Discussion on the Comparison Between Construction Drawing Budget and Construction Budget.....MENG Hai-yan (61)
The Effect of Distribution of Auxiliary Anode for Jacket's Cathode Protect Electric Potential
.....LI Hui, CHEN Ya-lin, HE Hai-long, HAN Bing, LI Xiang-yang, XU Biao, LIAO Zhuo-wei, YIN Peng-fei, LI Jin-mei, ZHENG Zhi-jian (63)
On How to Do Well in the Control of Construction Safety Management Links.....WANG Xi (71)
Research on Remote Transmission and Stray Current Elimination Technology of Pipeline Cathodic Protection.....LU Xue-song (75)
Modern and Efficient Office Design Practice.....HU Pei-juan, ZHANG Lei (77)
Discussion on Installation of Oilfield Ground Construction Equipment and Construction Technology of Gathering and Transportation Pipeline
.....ZHANG Lei (79)
Discussion and Analysis of Welding Quality Control Measures in the Process of Pressure Vessel Manufacturing.....WANG Zhi-yuan (82)
Analysis on Construction Quality Management of Natural Gas Pipeline Engineering.....ZHOU Xiang-jun (84)
Analysis on the Management and Coordination in the Process of Capital Construction.....SU Wei (87)
Analysis on Reliable Connection of Distribution Lines and Electrical Equipment.....QI Yu-liang (89)
Discussion on 7S Management Mode of Infrastructure Construction Site.....FAN Ji-guo (92)
Application of Anticorrosive Pipes in Oilfield Gathering and Transportation Engineering.....WANG Zhi-gang (94)
Analysis of Ground Construction Equipment Installation and Gathering Pipeline Construction.....WANG Tao, ZHAO Guo-juan (97)

• Corrosion Research •

- Discussion on Anticorrosion of Oil Pipeline in Oil Field.....BAI Kun (100)
Analysis of Anticorrosion Technology of Oil and Gas Metal Pipeline.....ZAHNG Jun (102)
Prevention and Treatment of Oxygen Corrosion in Fire Pipeline.....LIU Hong-jian (104)
Detection Strategy for Damaged External Coating of Buried Oil Pipeline.....ZHANG Ding-cheng (106)
Selection of Building Water Supply and Drainage Pipes and Research on Pipe Anticorrosion.....DENG Ke-ning (108)
Discussion on Corrosion Causes and Protective Measures of Water Supply Pipelines.....ZHANG Hong-peng (110)
Analysis of Anticorrosion Problems of Surveying Mark Stone in Alpine Area.....HU Dong-mei (112)
Quality Control of Anticorrosion Protection Engineering of Steel Structure Building.....WANG Ke-cheng (114)
Anticorrosion construction technology of large external floating roof storage tank.....Wang yi-ping (116)
Corrosion and Protection of Fractionation System in FCC Unit.....HAO Xin-huan (118)
Corrosion Analysis of the Sleeve Joint of the Water Well Pipe At Bohai Oilfield.....ZHANG Hao (123)
Current Status of Chongqi Bridge Steel Pipe Piles and Evaluation of Anti-corrosion
.....QU Yu, HUANG Ming-zhi, LIU Yong-zhu, CHENG Ming-shan (128)
Analysis of Corrosion and Anticorrosion Technology of High Voltage Electrical Equipment in Substation.....QU Xing-yao (133)

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>