



VOL.28 NO.20

ISSN1000-4602
CN12-1073/TU

中国给水排水®

著名商标

(ZHONGGUO JISHUI PAISHUI)

CHINA WATER & WASTEWATER

厚学载任 知深行远

承担国家“十二五”水专项课题 探索未来供水之路



WPG 北京威派格科技发展有限公司

ISSN 1000-4602



9 771000 460064

万方数据

住房和城乡建设部 主管

主 办 中国市政工程华北设计研究总院
国家城市给水排水工程技术研究中心



工程应用篇

目 次

广州市西江引水工程专栏

西江引水工程泵站的设计 匡 科,袁永钦(1)

述评与讨论

石河子市污水处理厂达标改造工艺技术方案思考 王 新(5)

上海中心城区市政排水系统雨水排水的管理与实践 程 江,潘 炜,丁 敏(9)

城市污水处理厂特许经营协议中期评估探讨 蒋惠敏,罗宜兵,冀滨弘,等(14)

非氧化杀菌剂控制反渗透系统生物污染 苏立永,潘献辉,葛云红,等(17)

基于健康水循环理念的番禺区综合治水新策略探讨 贾国宁,黄 平,温 聪(20)

上海排水系统设计运行中的降雨因素分析 高 原,房国良,胡 龙,等(24)

城市污泥土地利用的国际发展趋势与展望 余 杰,郑国砥,高 定,等(28)

给水管壁松散沉积物的形成机制与控制 周玲玲,张永吉,叶河秀,等(31)

臭氧-生物活性炭工艺设计中工程方案的选择 李世峰(35)

基于 ATV 标准的分段进水多级 A/O 工艺设计优化 王 姣,鞠 凤,李国斌(39)

给水管网优化设计目标的探讨 周 毅,陈永祥(43)

热点专题(太湖流域水污染治理)

太湖地区农村生活污水生物生态处理技术选择分析 郭飞宏,张心良,汪龙眠,等(48)

设计经验

广州市炭步镇污水处理厂多模式 AAO 工艺的设计与运行 鄢卫东(52)

钱塘江流域某污水处理厂三期工程工艺设计 蔡芝斌,谢超群,包松考,等(55)

陕南某水厂改扩建工程工艺技术探讨 王 彤,孙 杰,葛万斌,等(60)

STCC 工艺污水处理厂的设计经验 吴志高,石亚军,邹惠君,等(66)

双层平流沉淀池在深圳布吉污水处理厂工程中的应用 靳云辉,周建忠,张学兵,等(69)

复杂环境下大口径市政排水管道的设计和施工 周 青,杨 华,周 敏,等(73)

三峡库区农村环境连片整治工程设计实例 柴宏祥,徐海燕,张东波,等(78)

半地下全覆盖式 MBR 工艺再生水厂工程设计 胡 龙(83)

某镇环境连片综合整治中污水处理工程设计 余海静,杨连生,尹聪颖(87)

地下水导排法在无锡某下沉广场的设计应用 刘 晋,蒋岚岚,陈秋萍,等(90)

工程实例

- 大型污水厂利用电厂锅炉烟气余热干化脱水污泥 孙卫东,姜立安,汪泳,等(93)
- 生物接触氧化/超滤膜工艺处理小区生活污水 王邓红,王红宇,赵志杰(97)
- 超声波膜生物反应器工艺处理电子工业废水 徐东川,陈满,卢俊成,等(101)
- 颜料废水的新型组合处理工艺设计 王挺,王三反,史谦,等(104)
- 悬浮球填料接触絮凝工艺用于处理低温低浊水 刘国才(109)
- 基于 PLC 网络技术的 CASS 污水处理系统 唐春霞,侯武民,李念红(112)
- 温州市中心片污水处理厂污泥处理系统技术改造 廖建胜,李文兴,黄海国,等(115)
- BIOSET™ 石灰稳定工艺在美国某污泥处理厂的应用 于东(118)
- IC/MBBR 工艺处理高 COD、高氨氮煤化工废水 魏谷(121)
- 两级 Fenton-BAF 用于垃圾渗滤液深度处理工程 张杰,金洛楠,金嗣红,等(125)
- 多晶硅企业生产废水处理工程实例 许伟军,高璠,王家德(129)
- 柴油机电镀废水处理的工程实践 沈丽娜,陈文敬(133)

节水与回用

- 绿色建筑小区中给水排水设计的节水措施 严炜(136)

分析与监测

- 酶底物法与多管发酵法检测总大肠菌群差异分析 王晋宇,赵旭坤,郭志宇,等(139)
- 固相萃取高效液相色谱法测定水中微囊藻毒素 李保珍,谢树莲(142)
- HS-SPME-GC/MS 法测定地表水中典型臭味物质 周雪,黄勇,李学艳,等(146)

运行与管理

- 饮用水臭氧-生物活性炭深度处理工程调试运行 刘保超,李家爱,刘晓威(149)

施工与监理

- V 型滤池施工要点分析 黄建华(153)

版权声明:(13) 征订启事:(152)

ENGINEERING APPLICATION EDITION

C O N T E N T S

XIJIANG RIVER WATER DIVERSION PROJECT TOPIC

Design of Pumping Station in Xijiang River Water Diversion Project KUANG Ke, *et al.* (1)

REVIEWS AND DISCUSSIONS

Technical Process Scheme for Upgrading and Retrofitting Shihezi WWTP WANG Xin (5)

Stormwater Drainage Management and Practice of Municipal Drainage System in Central Shanghai CHENG Jiang, *et al.* (9)

Discussion on Mid-term Evaluation of Concession Agreement for Municipal Wastewater Treatment Plants
..... JIANG Hui-min, *et al.* (14)

Non-oxidative Biocide for Control of Biofouling in RO Systems SU Li-yong, *et al.* (17)

New Strategy on Comprehensive Water Control Based on Healthy Water Circulation Concept in Panyu
District JIA Guo-ning, *et al.* (20)

Analysis on Rainfall Factors in Design and Operation of Drainage system in Shanghai GAO Yuan, *et al.* (24)

International Trend and Prospect on Land Application of Sewage Sludge YU Jie, *et al.* (28)

Formation Mechanism and Control of Soft Deposit in Drinking Water Distribution System ZHOU Ling-ling, *et al.* (31)

Selection of Engineering Scheme in Ozone/Biological Activated Carbon Process Design LI Shi-feng (35)

Optimization Design of Step-feed Multistage A/O Process Based on ATV Standard WANG Jiao, *et al.* (39)

Discussion on Optimization Design Objectives of Water Distribution System ZHOU Yi, *et al.* (43)

HOT TOPIC(Pollution Control in Taihu Lake Basin)

Selection and Analysis of Treatment Technologies for Rural Domestic Sewage in Taihu Lake Area GUO Fei-hong, *et al.* (48)

DESIGN EXPERIENCES

Design and Operation of Multi-mode AAO Process in Tanbu Town Sewage Treatment Plant, Guangzhou City
..... YAN Wei-dong (52)

Process Design of Third-phase Project of a WWTP in Qiantang River Basin CAI Zhi-bin, *et al.* (55)

Discussion on Technologies about Renovation and Expansion of a Water Supply Plant in Shaanxi Province
..... WANG Tong, *et al.* (60)

Design Experience of Sewage Treatment Plant Using STCC Process WU Zhi-gao, *et al.* (66)

Application of Double-deck Horizontal Sedimentation Tank in Shenzhen Buji Wastewater Treatment Plant
..... JIN Yun-hui, *et al.* (69)

Design and Construction of Large Diameter Municipal Drainage Pipeline under Complicated Environment
..... ZHOU Qing, *et al.* (73)

Design Example of Integrated Treatment Engineering of Rural Environment in Three Gorges Reservoir
Region CHAI Hong-xiang, *et al.* (78)

Design of Semi-underground and Fully Covered Water Reclamation Plant Using MBR Process HU Long (83)

Design of Sewage Treatment Project in Contiguous Comprehensive Improvement of a Town Environment
..... YU Hai-jing, *et al.* (87)

Application of Groundwater Collection and Removal System in Design of a Submerged Square in Wuxi LIU Jin, *et al.* (90)

PROJECT CASES

Drying of Dewatered Sludge from Large-scale WWTP by Boiler Flue Gas Residual Heat in Power Plant
..... SUN Wei-dong, *et al.* (93)

Biological Contact Oxidation/Ultrafiltration Membrane Process for Treatment of Domestic Sewage from
Residential Area WANG Deng-hong, *et al.* (97)

Application of Ultrasound-MBR Process in Wastewater Treatment of Electronic Industry XU Dong-chuan, *et al.* (101)

Design of New Combined Process for Pigment Wastewater Treatment WANG Ting, *et al.* (104)

Suspended Ball-filler Contact Flocculation Process for Low-temperature and Low-turbidity Water Treatment LIU Guo-cai (109)

CASS Sewage Treatment System Based on PLC Network Technology TANG Chun-xia, *et al.* (112)

Technical Renovation of Sludge Treatment System in Wenzhou Central WWTP LIAO Jian-sheng, *et al.* (115)

Application of BIOSET™ Lime Stabilization Process in an American WWTP YU Dong (118)

IC/MBBR Process for Treatment of High COD and Ammonia Nitrogen Wastewater WEI Gu (121)

Application of Two-stage Fenton/BAF in Advanced Treatment of Landfill Leachate ZHANG Jie, *et al.* (125)

Wastewater Treatment Engineering in Polysilicon Manufacturer XU Wei-jun, *et al.* (129)

Treatment Practice of Wastewater from Surface Finishing Processes of Diesel Engine SHEN Li-na, *et al.* (133)

WATER CONSERVATION AND REUSE

Water Saving Measures in Water Supply and Drainage Design of Green Residential Building Community YAN Wei (136)

ANALYSIS AND MONITORING

Analysis of Difference between Enzyme Substrate Technique and Multiple Tube Fermentation Technique
in Determination of Total Coliforms WANG Jin-yu, *et al.* (139)

Determination of Microcystin-LR in Water by SPE and HPLC LI Bao-zhen, *et al.* (142)

Determination of Typical Odor Compounds in Surface Water by HS-SPME-GC/MS ZHOU Xue, *et al.* (146)

OPERATION AND MANAGEMENT

Commissioning and Operation of Ozone/Biological Activated Carbon Process for Advanced Treatment of
Drinking Water LIU Bao-chao, *et al.* (149)

CONSTRUCTION AND SUPERVISION

Analysis on Key Points for Construction of V-type Filter HUANG Jian-hua (153)