

华北水利水电学院学报

第 32 卷第 1 期

(1980 年创刊)

(2011 年 2 月)

目 次

第六届全国省际钢结构行业组织经济技术协会暨钢结构产业链中原高峰论坛专题

- 3DS MAXScript 在水工结构虚拟现实模型中的应用 魏 群 王宁波 王诗玉 (1)
MAXScript 在三维仿真悬索桥架设过程中的应用 魏 群 王 亮 (4)

水利与土木工程

- 库车河铜场水库工程水文计算 富 飞, 贾志峰, 张道媛 (9)
关于我国水资源管理现代化建设的几个问题 张 亮, 张金萍, 陈卫宾 (14)
河流矩形冰盖结构的动力特性分析 孟闻远, 王 璐, 许雷阁, 等 (17)
重力坝底板施工期温度应力仿真 黄养连, 黄恩中, 郭利霞, 等 (20)
四川横江万年桥水电站泄洪、冲砂闸门制造及施工技术 郑小平, 熊增生, 徐 倩, 等 (23)
水电站半地下厂房后浇带方案的机振响应复核 王 上, 梁成彦, 周伦燕 (27)
抛石围堰和模袋围堰在巢湖沿岸治理中的应用 丁友斌, 陈海涛 (32)
老观寨水库除险加固高喷灌浆质量控制 司建强, 张淙皎, 燕 辉, 等 (34)
水利工程混凝土裂缝成因及其控修方法 施观宇 (37)
混凝土收缩试验方法对比研究 朱 倩, 李 鹏 (40)

动力工程

- 水泥窑余热发电不达标原因分析及解决措施 贺慧宁, 彭 岩, 魏永杰, 等 (42)
玉米秸秆气化特性研究 张小桃, 黄明华, 王爱军, 等 (46)
三相四线低压配电系统电流不平衡问题分析 吕家滨 (50)
小波分析在输电线路故障检测中的应用 王爱军, 李 宏, 张小桃 (54)
基于单神经元的自适应 PID 控制系统设计及仿真 邱道尹, 张 健, 谢俊明, 等 (58)
施耐德 PLC 在煤炭采样机中的应用 侯树文, 孔卫星, 宋景瑞, 等 (61)
可编程控制器在小型汽轮机保护系统中的应用 梁德成, 朱学军 (65)
珊溪水力发电厂高压限流熔断器组合保护装置改造方案 陈元国, 吴 军 (68)

机械工程

- 大型渡槽机械化施工方案和工艺研究 严大考, 王利英, 张志华, 等 (71)
大型渡槽机械化施工成套设备在大型调水工程中的应用 纪占玲, 王利英, 高自茂 (75)
新型 Q460 高强度钢材在输电铁塔结构中的应用 曹现雷, 郝际平, 张天光 (79)
两管 Bumper 相贯焊接坡口数控切割 李权才, 王 明, 郭 飞, 等 (83)

岩土工程

- 地震背景噪声成像技术进展 潘纪顺, 谷芳莹, 李自立, 等 (87)
岩质高边坡 SNS 柔性防护网及其工程应用 胡利光 (91)
CFG 桩水平裂缝缺陷分析 闫怀先 (94)
蛟岭隧道洞顶塌方区地震探测 张 阔, 王 瑞 (97)
GPS 控制网约束平差基点的选择 王建华, 刘明辉 (100)

计算机应用

- 带有方形切角和正交槽线的带通滤波器设计 李素萍, 蔡洪涛, 吴 伟 (104)
基于 MATLAB 的直线度误差评定及可视化研究 伍卫平, 毋新房, 张晓兰 (107)
智能电网中监控摄像头可视化管理系统 王 娜 (111)
InTouch 在黄河下游引黄涵闸现地监控系统中的应用 史 靓, 赵 阳, 宋 涛, 等 (114)
负载均衡技术在流媒体业务中的应用 王 轶 (117)
基于 B/S 的高校设备管理系统的开发 侯艳君, 袁文卓 (121)
基于 JSP 架构的网络注册和管理系统研究 李 杰 (124)

环境工程与工程管理

- 基于 MIKE21 的三峡库区涪陵段排污口 COD 扩散特征模拟及对下游水质的影响 李 娜, 叶 闯 (128)
高密度沉淀池-超滤组合工艺对黄河微污染水源的处理效果 邵 坚, 薛 科, 彭君明, 等 (132)
郑州市郑东新区生态水系供水安全控制研究 高辉巧, 王 寒 (136)
健康商业生态系统的评价量化模型 李爱玉 (139)
基于能值的烟台市生态足迹动态分析 李永乐, 李朋鲁, 高辉巧 (142)
河南省经济增长模式的实证分析 杨卫涛 (146)

数理研究

- 一类非线性发展方程的显式精确解 陈自高, 蔡洪涛 (150)
基于优化步长和梯度法的置信规则库参数学习方法 常 瑞, 张 速 (154)
基于遗传算法和 Topsis 法的水电站装机容量评价模型 李振平, 任 铭, 余亚辉 (158)

基本参数: CN41-1249/TV * 1980 * b * A4 * 160 * zh * P * ¥10.00 * 1500 * 45 * 2011-02

执行编辑: 陈海涛 杜明侠 蔡洪涛 孙 垦 乔翠平 英文编辑: 李道西

JOURNAL OF NORTH CHINA INSTITUTE OF WATER CONSERVANCY AND HYDROELECTRIC POWER

Vol. 32 No. 1

(Started in 1980)

(Feb. 2011)

CONTENTS

3DS MAXScript Applied to Virtual Reality Model of Hydraulic Structure	WEI Qun, WANG Ning-bo, WANG Shi-yu (1)
MAXScript Applied to 3D Simulation of Suspension Bridge Erection Process	WEI Qun, WANG Liang (4)
Hydrological Calculation about Tongchang Reservoir of Kuqa River	FU Fei, JIA Zhi-feng, ZHANG Dao-yuan (9)
Discussion on Issues of Modernization of Water Resource Management in China	ZHANG Liang, ZHANG Jin-ping, CHEN Wei-bin (14)
Analysis on the Dynamic Characteristic of Rectangular Ice-cover Structures in River	MENG Wen-yuan, WANG Lu, XU Lei-ge, et al (17)
Simulation of Thermal Stresses Field of Bottom Plate of Gravity Dam during Construction Period	HUANG Yang-lian, HUANG En-zhong, GUO Li-xia, et al (20)
Manufacture and Construction Techniques of Sluice and Flush Gate of Years Bridge Hydropower Station in Hengjiang, in Sichuan Province	ZHENG Xiao-ping, XIONG Zeng-sheng, XU Qian, et al (23)
Units Vibration Response Checking of Semi-underground Powerhouse with Late Poured Band Program	WANG Shang, LIANG Cheng-yan, ZHOU Lun-yan (27)
Application of Riprap Cofferdam and Bag Cofferdam in the Ecological Environment Treatment	DING You-bin, CHEN Hai-tao (32)
Quality Control of High-pressure Grouting in Danger Control and Reinforcement of Laoguanzhai Reservoir	SI Jian-qiang, ZHANG Cong-jiao, YAN Hui, et al (34)
Study on Causes and Control-repair Methods of Concrete Cracks in Water Project Construction	SHI Guan-yu (37)
Comparative Study on Experimental Method for Concrete Shrinkage	ZHU Qian, LI Peng (40)
Substandard Cause Analysis and Solution Measures about Cement Kiln Waste Heat Generation	HE Hui-ning, PENG Yan, WEI Yong-jie, et al (42)
Research on the Characteristics of Cornstalk Gasification	ZHANG Xiao-tao, HUANG Ming-hua, WANG Ai-jun, et al (46)
Research on Current Imbalance in Three-phase Four-wire Low-voltage Distribution System	LV Jia-bin (50)
Application of Wavelet Analysis to Fault Detection in Transmission Lines	WANG Ai-jun, LI Hong, ZHANG Xiao-tao (54)
Design and Simulation of Self-adaptive PID Control System Based on Single Neuron	QIU Dao-ying, ZHANG Jian, XIE Jun-ming, et al (58)
Application of Schneider PLC in the Coal Sampling Machine	HOU Shu-wen, KONG Wei-xing, SONG Jing-rui, et al (61)
Application of Programmable Logic Controller in the Protection System of Mini-type Turbine	LIANG De-cheng, ZHU Xue-jun (65)
A Modification Scheme about Combination Protection Set of High-voltage Current-limiting Fuse in Shanxi Hydroelectric Power Plant	CHEN Yuan-guo, WU Jun (68)
Research on Scheme and Process of Large-scale Aqueduct Mechanized Construction	YAN Da-kao, WANG Li-ying, ZHANG Zhi-hua, et al (71)
Application of Complete Equipment of Large-scale Aqueduct Mechanized Construction in Large-scale Water Transfer Projects	Ji Zhan-ling, WANG Li-ying, GAO Zi-mao (75)
Engineering Application of New High-strength Steel Q460 in Transmission Towers	CAO Xian-lei, HAO Ji-ping, ZHANG Tian-guang (79)
NC Cutting of Welding Groove for Intersecting of Two Pipes	LI Quan-cai, WANG Ming, GUO Fei, et al (83)
Advances in Ambient Seismic Noise Imaging Techniques	PAN Ji-shun, GU Fang-ying, LI Zi-li, et al (87)
The SNS Flexible Safety Net of High Rock Slope and Its Applications	HU Zhao-guang (91)
Analysis on Horizontal Fracture Defects of CFG Pile	YAN Huai-xian (94)
Seismic Detection to the Landslide Area on Jiaoling Tunnel Roof	ZHANG Kuo, WANG Rui (97)
The Choice of Restraint Adjustment Basic Point on GPS Control Net	WANG Jian-Hua, LIU Ming-Hui (100)
Design of Bandpass Filter with Square Corner Cuts and Crossed Slots	LI Su-ping, CAI Hong-tao, WU Wei (104)
Research on Straightness Error Evaluation and Visualization Based on MATLAB	WU Wei-ping, WU Xin-fang, ZHANG Xiao-lan (107)
Visualization Management System of Surveillance Cameras in Smart Grid	WANG Na (111)
Application of InTouch in Local Control System of Intake Sluices in the Lower Yellow River	SHI Jing, ZHAO Yang, SONG Tao, et al (114)
Application of Load Balancing Technique in Streaming Media Business	WANG Yi (117)
Development of Equipment Management System in Colleges and Universities Based on the B/S Pattern	HOU Yan-jun, YUAN Wen-zhuo (121)
Research of Web Registration and Login System Based on JSP	LI Jie (124)
COD Diffusion Simulation Based on MIKE21 in Sewage Outfall of Peiling Section of the Three Gorges Reservoir Area and Its Impact on Downstream Water Quality	LI Na, YE Min (128)
Treatment Effectiveness of Group Technology of High Density Sedimentation Tank and Ultra-filtration on the Yellow River Slightly-polluted Water	SHAO Jian, XUE Ke, PENG Jun-ming, et al (132)
Research on the Water Supply Security Control of Ecological Water System in Zhengdong New District of Zhengzhou City	GAO Hui-qiao, WANG Han (136)
Research on Quantitative Evaluation Model of Healthy Business Ecosystem	LI Ai-yu (139)
Dynamic Analysis of Ecological Footprint of Yantai City Based on Energy	LI Yong-le, LI Peng-lu, GAO Hui-qiao (142)
Demonstration Analysis on Economic Growth Model in Henan Province	YANG Wei-tao (146)
Explicit Exact Solutions for a Class of Nonlinear Evolution Equation	CHEN Zi-gao, CAI Hong-tao (150)
An Algorithm for Training Parameters in Belief Rule-bases Based on Gradient Methods with Optimization Step Size	CHANG Rui, ZHANG Su (154)
Evaluation Model for Installed Capacity of Hydropower Station Based on Genetic Algorithm and Topsis Method	LI Zhen-ping, REN Ming, YU Ya-hui (158)