

电网与清洁能源

Power System and Clean Energy

中文核心期刊 Chinese Core Journals

中国科技核心期刊 Chinese Science and Technology Core Periodical

美国《乌利希期刊指南》收录期刊 Indexed by Ulrich's Periodicals Directory, United States

波兰《哥白尼索引》(IC) 来源期刊 Source Periodicals for Index of Copernicus (IC), Poland

DIANWANG YU QINGJIENENGYUAN

本期关注 FOCUS



液控分布式风力发电并网控制研究

Researches on Grid-Connection for Hydraulic Controlling
Distributed Wind Power Generation

ISSN 1674-3814



主管单位 国家电网公司
主办单位 陕西省电力公司
西安理工大学水电土木工程建筑研究设计院
State Grid Corporation of China
Shaanxi Electric Power Corporation
Design Academy of Water Conservancy Hydroelectric
Civil Engin&ARCH of Xi'an University of Technology

Authorities in Charge
Sponsor

2015
10

目次

《电网与清洁能源》 2015年第10期·第31卷·总第195期·10月

专家论坛

- 01 基于BP神经网络的充放电机故障诊断 / 朱金大,陈良亮,张卫国

智能电网

- 04 精确击穿电弧模型仿真及分析 / 王倩,叶赞,谭王景,段建东,崔帅帅,李笑

- 09 考虑受端励磁系统的交直流稳定性分析 / 李雪亮,张杰,王云鹏,杨金洪,韩学山,孙东磊,高效海

- 16 基于WIFI技术的挂接地线信息收集装置研制 / 刘家军,刘梦娜,赵晓龙,陶凯

- 21 多智能用户微电网的分层分时能量管理 / 徐俊,欧阳丽,周春

- 27 LC元件级联电路模拟行波过程的有效性分析 / 李传健,陈炯聪,黄曙,郑文杰

- 34 基于反馈阻抗的微电网下垂控制策略 / 杨涛,赵兴勇,王帅

- 39 直流逆变站动态无功源的电压稳定控制优化 / 赵鹏,李杰

- 44 级联H桥型多电平逆变器的CPS-SPWM调制策略研究 / 张贞艳,仲伟松

- 50 基于状态机模型的无线式双闸门监控系统设计 / 王卓君,杨群丰,沙鑫美,范凯

- 55 变电站内噪声研究及控制系统设计 / 赵宏飞,姜宁,马宏忠,李凯,许宏华,李勇

- 61 大型电力网络中潜在危险检测方法研究 / 黎斌,杨小梅

- 66 变电站综合自动化系统的集成 / 韩旭

- 71 馈线自动化终端注入测试法及其应用 / 凌万水,张磐,马杰

- 76 FRP复合材料杆塔横担研究应用现状及分析 / 朱岸明,杨大渭,刘云贺,马辉,王振山,郭宏超

- 83 改进关联规则方法在电力设备故障预测中的应用 / 班淑珍,韩俊峰

- 89 EPC模式下输变电工程管理流程体系综合评价 / 林智明,张垚,侯学良

- 94 基于改进和声搜索算法的配电网重构 / 夏艳萍,张靠社

清洁能源

- 99 液控分布式风力发电并网控制研究 / 李锐华,赵彤,李豪,胡波,施光林

- 106 广蓄B厂上位机系统改造技术研究 / 单鹏珠,陈杰,陈龙,张柏

- 112 基于总体平均经验模态分解与改进Elman神经网络的风功率组合预测 / 杨楠,周峰,李臻,崔家展,郑翔宇,杨俊

- 118 风力电网故障下的机械载荷优化测试分析 / 龙雄辉,苏丹

- 123 风水互补微电网的功率波动节能控制数学建模 / 刘志红,刘明明

本刊送阅:

国务院、国家能源局、各省(区)政府电力、能源主管领导

国家电网、能源企业主要负责人

中国科学院、中国工程院院士

电力、能源相关学会、协会

中国国家图书馆、中国版本图书馆、各省(区)图书馆

Contents

Power System and Clean Energy

2015 Vol.31 No.10 (Ser.195) Monthly

Experts Forum

- 01 Fault Diagnosis for Charging and Discharging Machine Based on BP Neural Network / *ZHU Jinda, CHEN Liangliang, ZHANG Weiguo*

Smart Grid

- 04 Simulation and Analysis of Accurate Breakdown Arc Model / *WANG Qian, YE Zan, TAN Wangjing, DUAN Jiandong, CUI Shuaishuai, LI Xiao*

- 09 Stability Analysis of HVDC Systems Considering Effects of Excitation Voltage Control of Receiving System / *LI Xueliang, ZHANG Jie, WANG Yunpeng, YANG Jinhong, HAN Xueshan, SUN Donglei, GAO Xiaohai*

- 16 Development of the Information Collection Device of the Ground Wire Based on WIFI Technology / *LIU Jiajun, LIU Mengna, ZHAO Xiaolong, TAO Kai*

- 21 Multi-Time Scale Energy Management for Microgrid System with Smart Users / *XU Jun, OUYANG Li, ZHOU Chun*

- 27 Analysis of the Effectiveness of the Wave Process Simulation by Using LC Element Cascade Circuit / *LI Chuanjian, CHEN Jiongcong, HUANG Shu, ZHENG Wenjie*

- 34 Droop Control Strategy of Micro-Grid Based on Feedback Impedance / *YANG Tao, ZHAO Xingyong, WANG Shuai*

- 39 Voltage Stability Control Optimization of DC Inverter Station Dynamic Reactive Power Source / *ZHAO Peng, LI Jie*

- 44 Research on the CPS-SPWM Modulation Strategy Used in Multilevel Inverter Based on Cascade H-Bridge / *ZHANG Zhenyan, ZHONG Weisong*

- 50 Design of a Wireless Type Double Sluice Gate Monitoring System Based on Model of State Machine / *WANG Zhuojun, YANG Qunfeng, SHA Xinmei, FAN kai*

- 55 Research on Substation Noise and Design of the Control System / *ZHAO Hongfei, JIANG Ning, MA Hongzhong, LI Kai, XU Honghua, LI Yong*

- 61 Potential Risk Detection Method for Large Power Networks / *LI Bin, YANG Xiaomei*

- 66 Substation Integrated Automation Integration / *HAN Xu*

- 71 Feeder Automation Terminal Injection Test Method and Its Application / *LING Wanshui, ZHANG Pan, MA Jie*

- 76 Application and Analysis of Cross Arms Made from FRP Composite Materials in Transmission Towers / *ZHU Anming, YANG Dawei, LLU Yunhe, MA Hui, WANG Zhenshan, GUO Hongchao*

- 83 Application of Improved Association Rules Method in Prediction of Electric Power Equipment Faults / *BAN Shuzhen, HAN Junfeng*

- 89 Comprehensive Evaluation of Management Process System in Power Transmission and Transformation Project under EPC Model / *LIN Zhiming, ZHANG Yao, HOU Xueliang*

- 94 Distribution Network Reconstruction Based on Improved Harmony Search Algorithm / *XIA Yanping, ZHANG Kaoshe*

Clean Energy

- 99 Researches on Grid-Connection for Hydraulic Controlling Distributed Wind Power Generation / *LI Ruihua, ZHAO Tong, LI Hao, HU Bo, SHI Guanglin*

- 106 Discussions on the Technical Reformation of the SCADA System in Guangzhou Pumped Storage Plant B / *SHAN Pengzhu, CHEN Jie, CHEN Long, ZHANG Bai*

- 112 Combined Model Based on EEMD and Improved Elman Neural Network for Wind Power Prediction / *YANG Nan, ZHOU Zheng, LI Zhen, CUI Jiazhan, ZHENG Xiangyu, YANG Jun*

- 118 Test Analysis of Mechanical Load in Wind Power Network Fault / *LONG Xionghui, SU Dan*

- 123 Power Fluctuations Energy Saving Control Mathematical Modeling of the Wind and Hydro Power Complementary Micro Grid / *LIU Zhihong, LIU Mingming*

