

电网与清洁能源

Power System and Clean Energy

中国科技核心期刊 China's Core Sci-Tech Journals

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



☐ 大规模光伏发电接入对直流输电系统的影响研究

Effects of Large-Scale PV Power Access on the HVDC Power Transmission System

ISSN 1674-3814



万方数据

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
Authorities in Charge State Grid Corporation of China
Sponsor Shaanxi Electric Power Corporation
Design Academy of Water Conservancy Hydroelectric
Civil Engin&ARCH of Xi'an University of Technology



目次

《电网与清洁能源》 2013年第5期·第29卷·总第166期·5月

智能电网

- 01 铝合金芯铝绞线在高海拔盐湖地区750 kV输电线路的应用 / 左玉玺,董铁柱,芦尚君,王劲武,王麦锋,刘毅,郑艳红
- 04 非磁性铝合金铠装海缆损耗实验研究 / 高震,章正国,郑新龙,张磊
- 09 大容量SVC在750 kV电网中的应用 / 朱岸明,王敏,焦熠琨,龚兴国,余波,尹大千,李龙才,康建国
- 13 变电站竖向布置设计 / 徐皇冈
- 18 配出中性导体的IT系统带非线性负载研究 / 吕强,徐晔,侯鹏飞,石朝泓
- 24 基于幅值的电压暂降特征量检测方法 / 付学谦,陈皓勇,黄良毅
- 30 希尔伯特-黄变换在电力系统中的应用 / 杨培宏,赵岩,岳立海
- 35 电网脆弱性评估方法研究 / 谢春瑰,方菲,吕项羽,林涛,蔡丽霞,刘慧
- 39 基于dsPIC单片机和MCP3909的智能无功补偿控制器设计 / 徐若然,向驰,付永长,周振华,宋春亮

清洁能源

- 45 基于EMTP/ATP的户用光伏发电系统建模与仿真 / 宋旭日,赵鸿图,王磊,刘鹏,叶林
- 52 核电站汽轮发电机在线监测系统应用分析 / 舒新宽,程芳婷
- 57 基于双环控制的双馈风力发电机组控制策略 / 赵兴勇,王灵梅
- 61 大规模光伏发电接入对直流输电系统的影响研究 / 韩华玲,李臻,施涛,陈宁
- 67 我国发展风电产业的战略性分析 / 张志春,刘洪伟
- 73 屋面防护落石冲击缓冲材料评述 / 李欢欢,张俊发,陶磊,张家维
- 80 一种基于变换器拓扑的新型MPPT控制算法的研究 / 周峰,王慧贞,张海波
- 87 风电机组圆形梁板式基础肋梁配筋计算 / 朱艳艳,陈永安,朱立群,杨晓
- 93 风电场35 kV系统优化设计及稳定运行技术探讨 / 郑晶晶,杨勇,邢延东,梁福波
- 97 联合动态无功补偿系统在风电场中的应用研究 / 石进辉,郑伟,拜润卿
- 102 山区风电工程升压站布置与建筑风格探讨 / 杨德清,李晓辉

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
2013 Vol.29 No.5 (Ser.166) Monthly

Smart Grid

- 01 Application of ACAR in the 750 kV Transmission Line at High-Altitude Salt Lake Region / *ZUO Yu-xi, DONG Tie-zhu, LU Shang-jun, WANG Jin-wu, WANG Mai-feng, LIU Yi, ZHENG Yan-hong*
- 04 Experimental Study on the Non-Magnetic Aluminum Armored Submarine Cable Loss / *GAO Zhen, ZHANG Zheng-guo, ZHENG Xin-long, ZHANG Lei*
- 09 Application of Large Capability SVC in 750 kV Power Grid / *ZHU An-ming, WANG Min, JIAO Yi-kun, GONG Xing-guo, YU-Bo, YIN Da-qian, LI Long-cai, KANG Jian-guo*
- 13 Vertical Distribution Design of the Substation / *XU Huang-gang*
- 18 IT System with Neutral Conductor with Nonlinear Load / *LÜ Qiang, XU Ye, HOU Peng-fei, SHI Zhao-hong*
- 24 Detection Method of Voltage Sag Characterizations Based on Peak Value / *FU Xue-qian, CHEN Hao-yong, HUANG Liang-yi*
- 30 Application of Hilbert-Huang Transform in Power System / *YANG Pei-hong, ZHAO Yan, YUE Li-hai*
- 35 Research on Power Grid Vulnerability Assessment Methods / *XIE Chun-gui, FANG Fei, LÜ Xiang-yu, LIN Tao, CAI Li-xia, LIU Hui*
- 39 Design of Intelligent Reactive Power Compensation Controller Based on dsPIC and MCP3909 / *XU Ruo-ran, XIANG Chi, FU Yong-chang, ZHOU Zhen-hua, SONG Chun-liang*

Clean Energy

- 45 Modeling and Simulation of Household Photovoltaic Power System Based on EMTP/ATP / *SONG Xu-ri, ZHAO Hong-tu, WANG Lei, LIU Peng, YE Lin*
- 52 Applications of the on Line Monitoring System for Turbo Generators in Nuclear Power Plants / *SHU Xin-kuan, CHENG Fang-ting*
- 57 Control Strategies Based on Double-Loop Control for Doubly Fed Induction Generators / *ZHAO Xing-yong, WANG Ling-mei*
- 61 Effects of Large-Scale PV Power Access on the HVDC Power Transmission System / *HAN Hua-ling, LI Zhen, SHI Tao, CHEN Ning*
- 67 Strategic Analysis of Wind Power Industry Development in China / *ZHANG Zhi-chun, LIU Hong-wei*
- 73 A Review of the Roof Protective Buffer Materials for Rockfall Impacts / *LI Huan-huan, ZHANG Jun-fa, TAO Lei, ZHANG Jia-wei*
- 80 Research on a New Control Method for Maximum Power Point Tracking Based on Converter Topology / *ZHOU Feng, WANG Hui-zhen, ZHANG Hai-bo*
- 87 Beam Reinforcement Calculation of Circular Beam-Slab Type Wind Turbine Foundation / *ZHU Yan-yan, CHEN Yong-an, ZHU Li-qun, YANG Xiao*
- 93 Technical Discussions on the Optimized Design and Stable Operation of the 35 kV for Wind Farms / *ZHENG Jing-jing, YANG Yong, XING Yan-dong, LIANG Fu-bo*
- 97 Application of the Combined Dynamic Reactive Power Compensation System in Wind Farms / *SHI Jin-hui, ZHENG Wei, BAI Run-qing*
- 102 Discussions about the Layout of a Boost Station and Architectural Style for Wind Farms in the Mountainous Area / *YANG De-qing, LI Xiao-hui*