

## 特稿专递

- 01 微型电网运行及保护设计 // 杨琦, 张建华
- 06 电站柴油机可修系统可靠性综合评估方法研究 // 王承禹, 常汉宝, 刘白运, 等
- 11 基于SVPWM的STATCOM设计及实现 // 王坤
- 16 基于多Agent的智能电网系统调度 // 马强, 刘建书, 弋英民
- 19 基于灰色马尔柯夫模型的电力系统负荷预测 // 谢杰, 陶伶俐, 张红燕, 等

## 研究与分析

- 22 750 kV同塔双回输电线路中感应电压、感应电流的研究以及接地开关的选取  
// 欧小波, 韩彦华, 吕亮, 等
- 28 基于模态分析的河北南网电磁解环电压稳定性研究 // 李泉, 任建文, 胡文平
- 33 750 kV官东I线架空地线感应电压和环流的仿真计算 // 解秀余, 张鹏, 胡攀峰, 等
- 37 基于改进重要抽样法的输电系统可靠性评估 // 郝宁, 朱永利
- 41 电力系统继电保护在线校验系统的研究 // 马丽萍, 焦彦军
- 45 陕西电网负荷特性研究 // 章海静, 锁军, 张小庆, 等

## 专题论坛

- 49 地区电网调控一体化系统建设的研究与分析 // 金双喜, 蔡峰源, 宣跃
- 53 陕西电网调度员培训仿真一体化系统的研究 // 刘东晖, 焦莉, 东琦, 等
- 56 汉中电网运行集中监控体系建设的探讨 // 赵晨, 肖苏力
- 59 汉中电网运行集中监控系统建设方案研究 // 邢军, 孙军, 陈鄂力

## 技术交流与应用

- 62 某330 MW汽轮机高中压转子间断性振动诊断处理 // 党原健, 李健, 李小彬, 等
- 66 330 MW汽轮机联轴器松动故障诊断分析 // 李明, 郑强, 王永庆
- 69 110 kV变压器的热稳定分析与事故防范措施 // 刘高会, 刘敏, 王朝霞, 等
- 74 分段备自投在实际应用中存在的问题和改进措施 // 古卫婷
- 77 火电厂磨煤机节能潜力分析 // 朱小东
- 81 魏家堡水电站水轮机技改扩容增效的实践 // 王敏
- 84 汉中电网输电线路防止外力破坏工作的探讨 // 刘华仲, 潘润涛

## 87 国内电力资讯

## 88 国际电力资讯

### Special Contribution

- 01 Design of Microgrid Operation Model and Coordinate Protection ..... YANG Qi, ZHANG Jian-hua  
 06 Comprehensive Evaluation Method for Repairable System Reliability of Power Plant Diesel Engine  
 ..... WANG Chen-yu, CHANG Han-bao, LIU Bo-yun, et al  
 11 SVPWM Based Design and Realization of STATCOM ..... WANG Kun  
 16 Multi-Agent Based Smart Grid Systems Dispatching ..... MA Qiang, LIU Jian-shu, GE Ying-min  
 19 Probe into Grey-Markov Model Based Power System Load Forecasting  
 ..... XIE Jie, TAO Ling-li, ZHANG Hong-yan, et al

### Research & Analysis

- 22 Research of Induced Voltage and Current on 750 kV Double Circuit Line on Same Tower and Selection of  
 Grounding Switch ..... OU Xiao-bo, HAN Yang-hua, LU Liang, et al  
 28 Modal Analysis Based Voltage Stability Research on Decoupling for Electromagnetic Loop Network in Hebei  
 Southern Power Grid ..... LI Quan, REN Jian-wen, HU Wen-ping  
 33 Simulation of Induced Voltage and Circulation on Overhead Ground Wire of 750 kV Guandong 1 Line  
 ..... XIE Xiu-yu, ZHANG Peng, HU Pan-feng, et al  
 37 Reliability Evaluation of Transmission System Based on Improved Importance Sampling Method  
 ..... HAO Ning, ZHU Yong-li  
 41 Online Checking System for Power System Protective Relaying ..... MA Li-ping, JIAO Yan-jun  
 45 Study on Load Performance of Shanxi Power Grid  
 ..... ZHANG Hai-jing, SUO Jun, ZHANG Xiao-qing, et al

### Special Forum

- 49 Research and Analysis on Construction of Dispatching & Control Integration System in Regional Power Grid  
 ..... JIN Shuang-xi, QIU Feng-yuan, XUAN Yue  
 53 Dispatcher Training and Simulation Integration System in Shaanxi Power Grid  
 ..... LIU Dong-hui, JIAO Li, DONG Qi, et al  
 56 Research on Construction of Centralized Monitoring System for Hanzhong Power Grid Operation  
 ..... ZHAO Chen, XIAO Su-li  
 59 Probe into Construction Scheme of Centralized Monitoring System for Hanzhong Power Grid Operation  
 ..... XING Jun, SUN Jun, CHEN Guo-li

### Technical Exchange & Application

- 62 Diagnosis and Treatment of Intermittent Vibration of 300 MW Turbine HP-IP Rotors  
 ..... DANG Yuan-jian, LI Jian, LI Xiao-bin, et al  
 66 Diagnosis and Analysis on Coupling Looseness Fault in 300 MW Turbine  
 ..... LI Ming, ZHENG Qaing, WANG Yong-qing  
 69 Thermal Stability Analysis and Accident Prevention Measures for 110 kV Transformer  
 ..... LIU Gao-hui, LIU Min, WANG Zhao-xia, et al  
 74 Existing Problems in Actual Application of Standby Electrical Source Automation Equipment and its  
 Improvement Measures ..... GU Wei-ting  
 77 Analysis on Energy-saving Potential of Coal Mill in Thermal Power Plant  
 ..... ZHU Xiao-dong  
 81 Practice on Reformation Project for Hydraulic Turbine in Weijiabao Hydropower Station  
 ..... WANG Min  
 84 Probe into Measures to Prevent from Outside Destroy in Transmission Line in Hanzhong Grid  
 ..... LIU Hua-shen, PAN Run-tao

### English Editor FU Xiao-ping

**Administrator:** State Grid Corporation of China  
**Sponsor:** Shaanxi Electric Power Corporation  
**Co-sponsor:** Shaanxi Society for Electrical Engineering  
**Editor & Publisher:** Editorial Department of SHAANXI ELECTRIC POWER  
**Address:** No.218, Shiyuan Road, Xi'an, Shaanxi, China  
**Post Code:** 710048 Tel:(029)81002083 85762790  
**E-mail:** sxdl@vip.163.com  
**Editor:** ZHAO Xu-feng