**《电力工程技术》**

**2017年第1-6期目录，欢迎登陆官网品鉴！**

[**www.epet-info.com**](http://www.epet-info.com)

**第6期**

**专论与综述**

[1] 大规模源网荷友好互动系统实切试验技术

刘华伟，李虎成，袁宇波，等. 大规模源网荷友好互动系统实切试验技术[J].电力工程技术, 2017,36(06):1-6.

LIU Huawei, LI Hucheng, YUAN Yubo,et al. The Actual Load Shedding Verification Test Technology of Large scale “Source Grid Load ”Friendly Interactive System Introduction[J]. Electric Power Engineering **Technology**, 2017,36(06):1-6.

[2] 两级式光伏发电系统低电压穿越控制策略研究

郭 勇，李 勇，皇甫星星，等. 两级式光伏发电系统低电压穿越控制策略研究[J].电力工程技术,2017,36(06):7-13.

GUO Yong, LI Yong, HUANGFU Xingxing,et al. LVRT Control Strategy of Two stage PV Power System[J]. Electric Power Engineering **Technology**, 2017,36(06):7-13.

[3] 柔性直流与常规直流协调的紧急功率支援策略研究

陈 睿，孙仲卿，杨银国，等. 柔性直流与常规直流协调的紧急功率支援策略研究[J].电力工程技术,2017,36(06):14-19,26.

CHEN Rui, SUN Zhongqing, YANG Yinguo,et al.Emergency Power Support Control Strategy of VSC HVDC and LCC HVDC Coordination[J]. Electric Power Engineering **Technology**, 2017, 36(06): 14-19,26.

**分布式光伏并网技术**

[1] 分布式光伏并网电压和功率因数协调控制策略

赵伟然，汪海蛟，李光辉，等. 分布式光伏并网电压和功率因数协调控制策略[J].电力工程技术, 2017,36(06):20-26.

ZHAO Weiran, WANG Haijiao, LI Guanghui,et al. Voltage and Power Factor Coordination Control for Distributed Photovoltaic Integratio[J]. Electric Power Engineering **Technology**, 2017, 36(06): 20-26.

[2] 基于光伏电站场景下的梯次电池储能经济性分析

刘大贺，韩晓娟，李建林. 基于光伏电站场景下的梯次电池储能经济性分析[J].电力工程技术, 2017,36(06):27-31,77.

LIU Dahe，HAN Xiaojuan，LI Jianlin.Economic Analysis of Echelon Battery Energy Storage Based on Artificial Fish Swarm Algorithm[J]. Electric Power Engineering **Technology**, 2017, 36(06): 27-31,77.

[3] 基于风光荷储联合优化的虚拟电厂竞价策略

刘佳楠，李 鹏，杨德昌. 基于风光荷储联合优化的虚拟电厂竞价策略[J].电力工程技术, 2017,36(06):32-37.

LIU Jianan, LI Peng, YANG Dechang.Bidding Strategy Analysis of Virtual Power Plant Based on Joint Operation of Wind solar load storage System[J]. Electric Power Engineering **Technology**, 2017, 36(06): 32-37.

**电网技术**

[1] 变电站IEC 61850 第2版信息及服务模型探讨

胡 荣，张喜铭，李 金，等. 变电站IEC 61850 第2版信息及服务模型探讨[J].电力工程技术, 2017,36(06):38-45.

HU Rong, ZHANG Ximing, LI Jin,et al. The discussion on Information Model and Service Model of IEC 61850 Edition 2 used in Smart Substation[J]. Electric Power Engineering **Technology**, 2017,36(06):38-45.

[2] 风力机模拟器的阻尼补偿策略与实验验证

徐洋超，殷明慧，陈载宇，等. 风力机模拟器的阻尼补偿策略与实验验证[J].电力工程技术, 2017, 36(06):46-52.

XU Yangchao, YIN Minghui,CHEN Zaiyu,et al.Damping Compensation Strategy of Wind Turbine Simulator and Experimental Verification[J]. Electric Power Engineering **Technology**, 2017, 36(06):46-52.

[3] 一种基于实际工况的数字化电能表校验方法及其误差分析

寇英刚，范 洁，杨世海，等. 一种基于实际工况的数字化电能表校验方法及其误差分析[J].电力工程技术,2017,36(06):53-57.

KOU Yinggang, FAN Jie, YANG Shihai,et al.A Calibration Method and Error Analysis of Digital Energy Meter Based on Actual Working Condition[J]. Electric Power Engineering **Technology**, 2017, 36(06): 53-57.

 [4] 基于思维进化算法的电动汽车有序充电控制策略

余晓玲，余晓婷，韩晓娟. 基于思维进化算法的电动汽车有序充电控制策略[J].电力工程技术,2017,36(06):58-62.

YU Xiaoling, YU Xiaoting, HAN Xiaojuan. A Coordinated Charging Strategy for PEV Charging Stations Based on Mind Evolutionary Algorithm[J]. Electric Power Engineering **Technology**, 2017,36(06):58-62.

[5] 输电线路工程预应力灌注桩防蚀设计及施工工艺

谈 磊，宁帅朋，韩丽婷. 输电线路工程预应力灌注桩防蚀设计及施工工艺[J].电力工程技术, 2017,36(06):63-67.

TAN Lei，NING Shuaipeng，HAN Liting. Anti corrosion Design and Construction Technology for Prestressed Cast in place Pile with Serious Corrosion in Transmission LineTowers[J]. Electric Power Engineering **Technology**, 2017,36(06):63-67.

[6] 基于多核结构的断路器在线监测系统设计

梁君涵，郑建勇，潘 益. 基于多核结构的断路器在线监测系统设计[J].电力工程技术, 2017, 36(06):68-72,77.

LIANG Junhan, ZHENG Jianyong, PAN Yi. On line Monitoring System Design of Circuit Breaker Based on Multi core Structure[J]. Electric Power Engineering **Technology**, 2017, 36(06): 68-72,77.

[7] 一种线路保护复用通道故障自诊断机制

蔡 菠，谈 浩，李 彦，等. 一种线路保护复用通道故障自诊断机制[J].电力工程技术, 2017, 36(06):73-77.

CAI Bo, TAN Hao, LI Yan, LI Xiang,et al.A Fault Self diagnosis Mechanism for Multiplexing Optical Channels of Relay Protection[J]. Electric Power Engineering **Technology**, 2017, 36(06): 73-77.

[8] 特高压直流对500 kV变压器直流偏磁的影响分析

张 曼，许文超，牛 涛，等. 特高压直流对500 kV变压器直流偏磁的影响分析[J].电力工程技术,2017,36(06):78-83.

ZHANG Man， XU Wenchao， NIU Tao,et al. Influence of HVDC Systems on 500 kV ransformer DC Magnetic Bias[J]. Electric Power Engineering **Technology**, 2017,36(06):78-83.

[9] 基于NCAV和电路等效替换的PWM整流器容错控制系统

秦 伟，冯延晖，黄 凯，等. 基于NCAV和电路等效替换的PWM整流器容错控制系统[J].电力工程技术,2017,36(06):84-89,131.

QIN Wei, FENG Yanhui, HUANG Kai,et al. Fault tolerant Control System of PWM RectifierBased on NCAV and Circuit Equivalent Replacement[J]. Electric Power Engineering **Technology**, 2017,36(06):84-89,131

[10] 基于故障全信息的自适应模糊融合选线技术

沈兴来，杨 智. 基于故障全信息的自适应模糊融合选线技术[J].电力工程技术, 2017, 36(06): 90-95.

SHENG Xinglai, YANG Zhi. A Self adapted Fault Line Selection Method Based on Complete Data Fusion Theory[J]. Electric Power Engineering **Technology**, 2017, 36(06): 90-95.

[11] 基于多源数据及模糊匹配的安稳运行状态智能巡检系统

张海宁，周忠宁，冯佳男，等. 基于多源数据及模糊匹配的安稳运行状态智能巡检系统[J].电力工程技术, 2017, 36(06):96-99.

ZHANG Haining, ZHOU Zhongning, FENG Jianan,et al. Intelligent Inspection System Based on Multi source Data and Fuzzy Matching for Power Security and Stability State[J]. Electric Power Engineering **Technology**, 2017, 36(06):96-99.

[12] 配电网网格化自动成图的实现

陈 兵，赵肖旭，施伟成，等. 配电网网格化自动成图的实现[J].电力工程技术, 2017, 36(06): 100-105.

CHEN Bing, ZHAO Xiaoxu, SHI Weicheng,et al. Realization of Automatic Grid Generation in Distribution Network[J]. Electric Power Engineering **Technology**, 2017, 36(06): 100-105.

[13] 江苏电网近年雷电活动及输电线路雷击跳闸分析

徐 伟，路永玲，唐梦颖，等. 江苏电网近年雷电活动及输电线路雷击跳闸分析[J].电力工程技术, 2017, 36(06):106-110.

XU Wei, LU Yonglin , TANG Mengying,et al.Analysis of Lightning Activities and Transmission Line Lightning Strike Tripping in Jiangsu Power Grid in Recent Years[J]. Electric Power Engineering **Technology**, 2017, 36(06):106-110.

[14] 有源配电网中储能双层精细优化配置方法

余 涛，袁 简，晏 阳，等. 有源配电网中储能双层精细优化配置方法[J].电力工程技术, 2017, 36(06):111-116.

YU Tao, YUAN Jian, YAN Yang,et al. A Two layer Detailed Optimization Allocation Method of Energy Storage in Active Distribution Network[J]. Electric Power Engineering **Technology**, 2017, 36(06):111-116.

[15] 电动汽车充电站多阶段选址规划

陈梦涛，张兆君，谭风雷，等. 电动汽车充电站多阶段选址规划[J].电力工程技术, 2017, 36(06):117-121.

CHEN Mengtao, ZHANG Zhaojun, TAN Fenglei,et al. Multi stage Location Planning of Electric Vehicle Charging Station[J]. Electric Power Engineering **Technology**, 2017, 36(06):117-121.

**运行分析**

[1] 输电线路树木故障机理分析及试验研究

刘贞瑶，谈发力，康宇斌，等. 输电线路树木故障机理分析及试验研究[J].电力工程技术, 2017, 36(06):122-126,131.

LIU Zhenyao, TAN Fali, KANG Yubin,et al. Mechanism Analysis and Experimental study of Transmission Line Tree related Failures[J]. Electric Power Engineering **Technology**, 2017, 36(06): 122-126,131.

[2] 一起252 kV 组合电器局放异常信号分析处理

施景垒，宋云翔，杨景刚，等. 一起252 kV 组合电器局放异常信号分析处理[J].电力工程技术, 2017, 36(06):127-131.

SHI Jinglei，SONG Yunxiang，YANG Jinggang,et al. Analysis and Treatment of Partial Discharge Abnormal Signal in 252 kV GIS Equipment[J]. Electric Power Engineering **Technology**, 2017, 36(06):127-131.

[3] 交流系统故障时统一潮流控制器处理策略

潘 磊，李 斌，杨 光，等. 交流系统故障时统一潮流控制器处理策略[J].电力工程技术, 2017, 36(06):132-137.

PAN Lei, LI Bin, YANG Guang, et al.Contro land Protection Strategies of Unified Power Flow Controller During AC System Failure[J]. Electric Power Engineering **Technology**, 2017, 36(06):132-137.

**发电技术**

[1] 冷热电联供型微电网优化运行及敏感性分析

崔 林，唐沂媛. 冷热电联供型微电网优化运行及敏感性分析[J].电力工程技术, 2017, 36(06):138-143.

CUI Lin, TANG Yiyuan. Optimal Operationand Sensitivity Analysis of the Combined Cooling, Heating and Power Microgrid[J]. Electric Power Engineering **Technology**, 2017, 36(06):138-143.

[2] 新型外挂式电力系统稳定器装置的设计与实现

韩 兵，吴 龙，吴跨宇，等. 新型外挂式电力系统稳定器装置的设计与实现[J].电力工程技术, 2017, 36(06):144-150.

HAN Bing, WU Long, WU Kuayu,et al. Design and Realization of New External Power System Stabilizer Device[J]. Electric Power Engineering **Technology**, 2017, 36(06):144-150.

**第5期**

**新能源友好并网与消纳技术专题**

[1] 特约主编寄语

徐青山.特约主编寄语[J].电力工程技术,2017,36(05):1.

[2] 虚拟同步整流器的不平衡电压改进控制

缪惠宇,郑建勇,顾盼盼,等.虚拟同步整流器的不平衡电压改进控制[J].电力工程技术,2017,36(05):2-7.

MIAO Huiyu, ZHENG Jianyong, GU Panpan,et al. Improved Control of Virtual Synchronous Rectifier with Unbalanced Voltage[J]. Electric Power Engineering **Technology**, 2017,36(05):2-7.

[3] 多态用能与电网间安全稳定的协调控制框架设计

秦晓辉,张彦涛,葛磊蛟,等.多态用能与电网间安全稳定的协调控制框架设计[J].电力工程技术,2017,36(05):8-14.

QIN Xiaohui, ZHANG Yantao, GE Leijiao, et al. A Framework Design of Coordinated Control for Multi-energy’sUtilization and Grid’s Security and Stability[J]. Electric Power Engineering **Technology**, 2017,36(05):8-14.

[4] 基于多代理系统的直流微电网分区域式稳定控制方法研究

郝雨辰,江叶峰,仇晨光,等.基于多代理系统的直流微电网分区域式稳定控制方法研究[J].电力工程技术,2017,36(05):15-20.

HAO Yuchen, JIANG Yefeng, QIU Chenguang, et al. Research on Sub-regional Stability Control of DC Microgrid Based on Multi-agent System[J]. Electric Power Engineering **Technology**, 2017,36(05):8-14.

[5] 基于光伏电站的两阶段网架恢复综合优化方法

项添春,李国栋.基于光伏电站的两阶段网架恢复综合优化方法[J].电力工程技术,2017,36(05):21-28.

XIANG Tianchun, LI Guodong. A Two-phase Integral Optimization Strategy for NetworkRestoration with Photovoltaic Generation[J]. Electric Power Engineering **Technology**, 2017,36(05):21-28.

[6] 计及户用分布式电源的合作博弈智能用电技术

陈彬.计及户用分布式电源的合作博弈智能用电技术[J].电力工程技术,2017,36(05):29-34+65.

CHEN Bin. Cooperative Game-based Energy Consumption TechnologyConsidering Household Distributed Generators[J]. Electric Power Engineering **Technology**, 2017,36(05):29-34+65.

[7] 虚拟电机技术应用前景和发展方向

孔祥平,冯畅,丁昊,等.虚拟电机技术应用前景和发展方向[J].电力工程技术,2017,36(05):35-44.

KONG Xiangping, FENG Chang, DING Hao, et al. Application Prospective and Development Trends of Virtual Generator Technology[J]. Electric Power Engineering **Technology**, 2017,36(05):35-44.

[8] 城市电网耦合氢储能系统投资决策方法研究

邵志芳,吴继兰,赵强.城市电网耦合氢储能系统投资决策方法研究[J].电力工程技术,2017,36(05):45-51.

SHAO Zhifang, WU Jilan, ZHAO Qiang. Investment Decision Method of Coupled Hydrogen Energy Storage System in Urban Power Grid[J]. Electric Power Engineering **Technology**, 2017,36(05):45-51.

[9] 并联T型三电平储能变流器零序环流抑制

陈刚,蒋顺平,丁勇,等.并联T型三电平储能变流器零序环流抑制[J].电力工程技术,2017,36(05):52-58.

CHEN Gang, JIANG Shunping, DING Yong,et al. Zero-sequence Circulating Current Reduction for Parallel T-type Three-level Power Converter Systems[J]. Electric Power Engineering **Technology**, 2017,36(05):52-58.

**电网技术**

[1] 考虑时空互补特性的风光水火多能源基地联合优化调度

夏新华,高宗和,李恒强,等.考虑时空互补特性的风光水火多能源基地联合优化调度[J].电力工程技术,2017,36(05):59-65.

XIA Xinhua, GAO Zonghe, LI Hengqiang,et al. Combined Optimization Dispatching of Multi-source Hybrid Power Bases Considering the Time-space Complementary Characteristics[J]. Electric Power Engineering **Technology**, 2017,36(05):59-65.

[2] 华东电网并网机组涉网保护相关标准及核查问题分析

汪静,余高旺.华东电网并网机组涉网保护相关标准及核查问题分析[J].电力工程技术,2017,36(05):66-70.

WANG Jing ,YU Gaowang. Analysis of Related Standards and Verification Problems of Grid-related Generator Protection in State Grid East China Branch[J]. Electric Power Engineering **Technology**, 2017,36(05):66-70.

[3] 基于牛顿-拉夫逊法的风速观测器设计

刘乾,徐洋超,李赟.基于牛顿-拉夫逊法的风速观测器设计[J].电力工程技术,2017,36(05):71-75.

LIU Qian,XU Yangchao,LI Yun. he Implementation of Wind Speed Observation Based on Newton-Raphson Method[J]. Electric Power Engineering **Technology**, 2017,36(05):71-75.

[4] 220kV户内变电站屋顶构架结构体系及其抗震性能

王庭华,黄峥,丁静鹄,等.220kV户内变电站屋顶构架结构体系及其抗震性能[J].电力工程技术,2017,36(05):76-80+92.

WANG Tinghua,HUANG Zheng,DING Jinghong,et al. Research on the Structural Property and Seismic Performance of the 220 kV Roof Frame-GIS Complex Building[J]. Electric Power Engineering **Technology**, 2017,36(05):76-80+92.

[5] 低压开关柜成本敏感度分析及成本估算模型

谢家正,夏成军,马仲能.低压开关柜成本敏感度分析及成本估算模型[J].电力工程技术,2017,36(05):81-85+92.

XIE Jiazheng , XIA Chengjun , MA Zhongneng. Research on Cost Sensitivity and Cost Estimation Model of Low-voltage Switchgear[J]. Electric Power Engineering **Technology**, 2017, 36(05): 81-85+92.

[6] 基于两级充电管理系统的电动汽车智能充电控制系统研究

张军,韩华春,原增泉.基于两级充电管理系统的电动汽车智能充电控制系统研究[J].电力工程技术,2017,36(05):86-92.

ZHANG Jun, HAN Huachun, YUAN Zengquan. Smart Charging Control Electrical Vehicles Based on Two-level Charge Management System[J]. Electric Power Engineering **Technology**, 2017,36(05):86-92.

[7] 分布式能源对主动配电网谐波特性影响的研究

竺庆茸,黄文杰,徐修华,等.分布式能源对主动配电网谐波特性影响的研究[J].电力工程技术,2017,36(05):93-97+108.

ZHU Qingrong,HUANG Wenjie,XU Xiuhua,The Impact of Distributed Energy on Harmonic Characteristics in Active Distribution Network[J]. Electric Power Engineering **Technology**, 2017,36(05):93-97+108.

[8] 直流GIL绝缘设计及局部放电检测研究进展

赵科,王静君,刘通,等.直流GIL绝缘设计及局部放电检测研究进展[J].电力工程技术,2017,36(05):98-102+108.

ZHAO Ke,WANG Jingjun,LIU Tong,et al. A Review of Insulation Design and Partial Discharge Detection of DC Gas Insulated Line[J]. Electric Power Engineering **Technology**, 2017,36(05):98-102+108.

[9] 高压断路器储能弹簧的可靠性及寿命分析

田涛,张兆君,朱超,等.高压断路器储能弹簧的可靠性及寿命分析[J].电力工程技术,2017,36(05):103-108.

TIAN Tao, ZHANG Zhaojun ,ZHU Chao,et al. Reliability and Life Analysis of Energy-storing Spring for High Voltage Circuit Breaker [J]. Electric Power Engineering **Technology**, 2017,36(05):103-108.

[10] 基于配网主站平台的图模变化量多版本机制研究

卢小海,王宇名,赵文博.基于配网主站平台的图模变化量多版本机制研究[J].电力工程技术,2017,36(05):109-113.

LU Xiaohai, WANG Yuming, ZHAO Wenbo . Multi-version Mechanism of Change in Graphics and Models Based on Distribution Network Master Station Platform[J]. Electric Power Engineering **Technology**, 2017,36(05):109-113.

[11] 一种柔性直流子模块测试装置的研制及应用

李兴建,王庆,刘洪德,等.一种柔性直流子模块测试装置的研制及应用[J].电力工程技术,2017,36(05):114-119.

LI Xingian, WANG Qing , LIU Hongde ,et al. Research and Application of Test for Flexible HVDC Sub-module[J]. Electric Power Engineering **Technology**, 2017,36(05):114-119.

[12] 基于多点故障行波检测的改进分布式故障测距方法研究

王博,谷昌瑞,吉晓筱,等.基于多点故障行波检测的改进分布式故障测距方法研究[J].电力工程技术,2017,36(05):120-127.

WANG Bo, GU Changrui,JI Xiaoxiao, et al. Research on Improved Distributed Fault Location Method based on Multi-point Fault’s Traveling Wave Detection[J]. Electric Power Engineering **Technology**, 2017,36(05):120-127.

[13] 智能变电站过程层交换机设计及实现

杨贵,高红亮,彭安,等.智能变电站过程层交换机设计及实现[J].电力工程技术,2017,36(05):128-135.

YANG Gui, GAO Hongliang, PENG An,et al. Design and Implementation of Smart Substation Process Layer Switch[J]. Electric Power Engineering **Technology**, 2017,36(05):128-135.

**运行分析**

[1] 一次特殊的高压直流输电线路故障分析及线路保护优化

杨建明,徐斌,王杨正,等.一次特殊的高压直流输电线路故障分析及线路保护优化[J].电力工程技术,2017,36(05):136-142.

YANG Jianming, XU Bin, WANG Yangzheng, et al. Analysis of an HVDC Transmission Line Fault and Line Protection Optimization[J]. Electric Power Engineering **Technology**, 2017,36(05):136-142.

[2] 一种配电网量测系统设计及优化方案

徐凌逊,范韩璐,祁宇,等.一种配电网量测系统设计及优化方案[J].电力工程技术,2017,36(05):143-148.

XU Lingxun ,FAN Hanlu ,QI Yu,et al. Design and Optimization of Distribution Network Measurement System[J]. Electric Power Engineering **Technology**, 2017,36(05):143-148.

[3] 一种基于可靠性分析的输电线路路径设计方法

王川化,余鹏飞.一种基于可靠性分析的输电线路路径设计方法[J].电力工程技术,2017,36(05):149-154.

WANG Chuanhua, YU Pengfei. A Transmission Line Path Design Method Based on Reliability Analysis[J]. Electric Power Engineering **Technology**, 2017,36(05):149-154.

**发电技术**

[1] 某燃机电厂反渗透进水加热系统的优化

沙海伟.某燃机电厂反渗透进水加热系统的优化[J].电力工程技术,2017,36(05):155-159.

SHA Haiwei. Optimization of Reverse Osmosis Influent Heating System of A Gas Turbine Power Plant[J]. Electric Power Engineering **Technology**, 2017,36(05):155-159.

[2] 现役燃煤机组全工况脱硝技术比较

陈华桂,何育生,戴兴干.现役燃煤机组全工况脱硝技术比较[J].电力工程技术,2017,36(05):160-164.

CHEN Huagui,HE Yusheng,DAI Xinggan .Comparison of Denitrification Technology for In-service Coal-fired Unit in All Conditions[J]. Electric Power Engineering **Technology**, 2017,36(05):160-164.

**第4期**

**主动配电网技术与应用专题**

[1] 特约主编寄语

刘东.特约主编寄语[J].电力工程技术,2017,36(04):1.

[2] 主动配电网技术研究现状综述

刘东,张弘,王建春.主动配电网技术研究现状综述[J].电力工程技术,2017,36(04):2-7+20.

## LIU Dong,  ZHANG Hong,  WANG Jianchun. Review on the State of the Art of Active Distribution Network Technology Research[J]. Electric Power Engineering Technology, 2017,36(04):2-7+20.

[3] 面向主动配电网的电动汽车充放电功率控制技术

韩华春,丁昊,黄地,等.面向主动配电网的电动汽车充放电功率控制技术[J].电力工程技术,2017,36(04):8-13.

HAN Huachun,  DING Hao,  HUANG Di,et al. Electric Vehicle Power Control Strategy for Active Distribution Network[J]. Electric Power Engineering **Technology**, 2017,36(04):8-13.

[4] 主动配电系统协调控制与优化技术研究与应用

李海涛.主动配电系统协调控制与优化技术研究与应用[J].电力工程技术,2017,36(04):14-20.

LI Haitao. Research and Application of Coordinate control & Optimization Technology for Active Distribution System[J]. Electric Power Engineering **Technology**, 2017,36(04):14-20.

[5] 基于小波变换的直流主动配电网电压波动源辨识

张宸宇,邓凯,史明明,等.基于小波变换的直流主动配电网电压波动源辨识[J].电力工程技术,2017,36(04):21-24+30.

ZHANG Chenyu,  DENG Kai,  SHI Mingming,et al. Identification of Voltage Pollution Source Based on Wavelet Transformin DC Active Distributed Network[J]. Electric Power Engineering **Technology**, 2017,36(04):21-24+30.

[6] 主动配电网协调控制系统设计及应用

黄素娟,张晓青,孙保华,等.主动配电网协调控制系统设计及应用[J].电力工程技术,2017,36(04):25-30.

HUANG Sujuan, ZHANG Xiaoqing,  SUN Baohua, et al. Design and Application of Coordinated Control System in Active Distribution Network[J]. Electric Power Engineering **Technology**, 2017,36(04):25-30.

[7] 考虑价格需求响应的主动配电网动态经济调度

张刘冬,丁昊,袁晓冬,等.考虑价格需求响应的主动配电网动态经济调度[J].电力工程技术,2017,36(04):31-35+42.

ZHANG Liudong, DING Hao,  YUAN Xiaodong, et al. Active and Reactive Power Coordinated Economic Dispatch of Active Distribution Networks with Consideration of Price-based Demand Response[J]. Electric Power Engineering **Technology**, 2017,36(04):31-35+42.

**电网技术**

[1] 基于MgB\_2高温超导材料的吉瓦级远程直流输电研究

王颖杰,杨波,左慧芳,等.基于MgB\_2高温超导材料的吉瓦级远程直流输电研究[J].电力工程技术,2017,36(04):80-85.

## WANG Yingjie,  YANG Bo,  ZUO Huifang, et al. Research on GW Level Remote HVDC Based on MgB2 HTS Superconductor[J]. Electric Power Engineering Technology, 2017,36(04):80-85.

[2] 基于监测帧的PRP和HSR冗余网络监视系统的实现

高红亮,陶文伟,唐孝舟,等.基于监测帧的PRP和HSR冗余网络监视系统的实现[J].电力工程技术,2017,36(04):65-69.

GAO Hongliang,  TAO Wenwei,  TANG Xiaozhou, et al. The Implementation of PRP and HSR Redundancy Network Supervision System Based on Detecting Frame[J]. Electric Power Engineering **Technology**, 2017,36(04):65-69.

[3] 一种综合判别电力系统失步的新方法

张洪喜,沈军,赵青春,等.一种综合判别电力系统失步的新方法[J].电力工程技术,2017,36(04):86-90.

ZHANG Hongxi, SHEN Jun, ZHAO Qinchun, et al. A New Method of Synthetic Judging Out-of-step on Power System[J]. Electric Power Engineering **Technology**, 2017,36(04):86-90.

[4] 电网薄弱环节分类识别技术研究

黄道姗.电网薄弱环节分类识别技术研究[J].电力工程技术,2017,36(04):91-97.

HUANG Daoshan. Classification and Identification of Power Grid Weak Links[J]. Electric Power Engineering **Technology**, 2017,36(04):91-97.

[5] 一种基于物理层的光纤通信断链快速监测方法

丁力,陈建松,袁涛.一种基于物理层的光纤通信断链快速监测方法[J].电力工程技术,2017,36(04):103-107+118.

DING Li, CHEN Jiansong, YUAN Tao. A Fast Monitoring Method for Optical Fibre Communication Link Based on Physical Layer[J]. Electric Power Engineering **Technology**, 2017, 36(04):103-107+118.

[6] 适用于混合仿真的戴维南等值阻抗改进求取算法

杨洋,孙静,杨培栋,等.适用于混合仿真的戴维南等值阻抗改进求取算法[J].电力工程技术,2017,36(04):36-42.

YANG Yang,  SUN Jing,  YANG Peidong, et al. Improved Thevenin Equivalent Impedance Calculating Method for Hybrid Simulation[J]. Electric Power Engineering **Technology**, 2017, 36(04):36-42.

[7] 高压XLPE电缆击穿的制造因素分析及有效控制

鲁宁.高压XLPE电缆击穿的制造因素分析及有效控制[J].电力工程技术,2017,36(04):43-47+58.

LU Ning . Manufacture Factor Analysis and Effective Control of High Voltage XLPE Cable Breakdown[J]. Electric Power Engineering **Technology**, 2017,36(04):43-47+58.

[8] 基于油色谱超立方映射的电力变压器缺陷援例诊断模型

郑一鸣,何文林,孙翔,等.基于油色谱超立方映射的电力变压器缺陷援例诊断模型[J].电力工程技术,2017,36(04):48-53.

ZHENG Yiming,  HE Wenlin,  SUN Xiang , et al. Case Based Power Transformer Defeats Diagnose Model Using Hypercube Mapping of Oil Chromatography[J]. Electric Power Engineering **Technology**, 2017, 36(04):48-53.

[9] 高温缺水地区换流阀冷却系统的研究

刘重强,张恩龙,陈绪胜,等.高温缺水地区换流阀冷却系统的研究[J].电力工程技术,2017,36(04):54-58.

LIU Chongqiang, ZHANG Enlong, CHEN Xusheng, et al. Converter Valve Cooling System for High Temperature Water Shortage Area[J]. Electric Power Engineering **Technology**,  2017, 36(04):54-58.

[10] 换相失败对晶闸管结温影响及保护定值整定研究

王永平,杨建明,赵文强,等.换相失败对晶闸管结温影响及保护定值整定研究[J].电力工程技术,2017,36(04):59-64+69.

WANG Yongping, YANG Jianming, ZHAO Wenqiang, et al. Influence of Commutation Failure to Valve Temperature and Protection Fixed Value Setting[J]. Electric Power Engineering **Technology**, 2017, 36(04):59-64+69.

[11] 油气套管连接的变压器绕组变形试验差异分析

陈旭,王淮宁,孙立群,等.油气套管连接的变压器绕组变形试验差异分析[J].电力工程技术,2017,36(04):70-74+85.

CHEN Xu, WANG Huaining, SUN Liqun , et al. Difference Analysis of Oil-gas Bushing- connected Transformer Winding Deformation Test[J]. Electric Power Engineering **Technology**, 2017, 36(04):70-74+85.

[12] 用于变电站信息接入测试的移动式模拟主站环境构建及应用方法

杨启京,孟勇亮,岑红星,等.用于变电站信息接入测试的移动式模拟主站环境构建及应用方法[J].电力工程技术,2017,36(04):75-79+97.

YANG Qijing, MENG Yongliang, CEN Hongxin, et al. Construction and Application of Mobile Simulation Master Station Environment for Substation Information Access Test[J]. Electric Power Engineering **Technology**, 2017,36(04):75-79+97.

[13] 光纤位移传感器在断路器在线监测系统中的应用

赵国栋,耿亚明,柴宇,等.光纤位移传感器在断路器在线监测系统中的应用[J].电力工程技术,2017,36(04):98-102.

ZHAO Guodong, GENG Yaming,  CHAI Yu, et al. The Applications of the Optical Fiber Displacement Sensor in On-line Monitoring System of Circuit Breaker[J]. Electric Power Engineering **Technology**, 2017,36(04):98-102.

**运行分析**

[1] 基于用户可中断负荷的实时负荷控制决策技术应用

方超,陈楚,熊政,等.基于用户可中断负荷的实时负荷控制决策技术应用[J].电力工程技术,2017,36(04):108-112.

FANG Chao, CHEN Chu,  XIONG Zheng, et al. Application of Real-time Load Control Decision Technology Based on User's Interruptible Load[J]. Electric Power Engineering **Technology**, 2017,36(04):108-112.

[2] 无级调感技术在特高压变压器局放试验中的应用研究

蔚超,刘阳.无级调感技术在特高压变压器局放试验中的应用研究[J].电力工程技术,2017,36(04):113-118.

WEI Chao, LIU Yang. Partial Discharge Experiment of UHV Transformer Based on Stepless Adjustment Technology[J]. Electric Power Engineering **Technology**, 2017,36(04):113-118.

[3] 一种电力二次设备自适应开关量数据采集系统的设计

邓庆,周华良,夏雨,等.一种电力二次设备自适应开关量数据采集系统的设计[J].电力工程技术,2017,36(04):119-124+136.

DENG Qing, ZHOU Hualiang, XIA Yu, et al.Design of Adaptive Switching Input Data Acquisition System in Power System Secondary Equipment[J]. Electric Power Engineering **Technology**, 2017, 36(04):119-124+136.

[4] 激光导航智能机器人巡检系统在特高压变电站的应用

郭杨,陈昊.激光导航智能机器人巡检系统在特高压变电站的应用[J].电力工程技术,2017,36(04):125-130.

GUO Yang, CHEN Hao. Intelligent Robot Inspection System Based on Laser Navigation in UHV Substation[J]. Electric Power Engineering **Technology**, 2017,36(04):125-130.

[5] 配电网三相不平衡对线损增加率及电压偏移的影响

王若丞.配电网三相不平衡对线损增加率及电压偏移的影响[J].电力工程技术,2017,36(04):131-136.

WANG Ruocheng. Influence of Distribution Network Three-phase Unbalanceon Line Loss Increase Rate and Voltage Offset[J]. Electric Power Engineering **Technology**, 2017, 36(04): 131-136.

[6] 统一潮流控制器与串补对线路保护影响的比较分析

谢华,潘磊,赵青春,等.统一潮流控制器与串补对线路保护影响的比较分析[J].电力工程技术,2017,36(04):137-142.

XIE Hua, PAN Lei, ZHAO Qingchun ,e al. Research on the Effect of UPFC and SC on Line Protection[J]. Electric Power Engineering **Technology**, 2017,36(04):137-142.

[7] 特高压直流保护动作策略优化

赵森林,卢亚军,吕鹏飞,等.特高压直流保护动作策略优化[J].电力工程技术,2017,36(04):143-149.

ZHAO Senlin,  LU Yajun,  LYU Pengfei,et al .Optimization of UHVDC Protection Action Strategy[J]. Electric Power Engineering **Technology**, 2017,36(04):143-149.

**发电技术**

[1] 基于无量纲的电站加热器变工况建模和研究

于忠平,胥建群,黄喜军.基于无量纲的电站加热器变工况建模和研究[J].电力工程技术,2017,36(04):150-154.

YU Zhongping, XU Jianqun, HUANG Xijun. Modeling of Regenerative Heater of Off-design Conditions Based on Dimensionless Method[J]. Electric Power Engineering **Technology**, 2017, 36(04):150-154.

[2] 1000 MW二次再热塔式炉塌灰机理及预防

王祥,尹凌霄.1000 MW二次再热塔式炉塌灰机理及预防[J].电力工程技术,2017,36(04):155-160.

WANG Xiang, YIN Lingxiao. Formation Mechanism and Preventive Countermeasures of Ash Collapsing in 1000 MW Double-reheat Tower Type Boiler[J]. Electric Power Engineering **Technology**, 2017,36(04):155-160.

**第3期**

**专论与综述**

[1] 发电机组一次调频在线测试与AGC性能考核系统设计

徐春雷,徐瑞,仇晨光,等.发电机组一次调频在线测试与AGC性能考核系统设计[J].电力工程技术,2017,36(03):1-6.

XU Chunlei, XU Rui,  QIU Chenguang, et al. Evaluation System Design of Online Test of Primary Frequency Regulation and AGC Performance for Generator Unit[J]. Electric Power Engineering **Technology**, 2017,36(03):1-6.

[2] 基于PSModel的江苏电网机电-电磁混合仿真

金梦,李修金,刘一丹,等.基于PSModel的江苏电网机电-电磁混合仿真[J].电力工程技术,2017,36(03):7-11+27.

JIN Meng,  LI Xiujin,  LIU Yidan, et al .Electromechanical-electromagnetic Hybrid Simulation of Jiangsu Power Grid Using PSModel[J]. Electric Power Engineering **Technology**, 2017, 36(03): 7-11+27.

[3] 含大规模风电的互联系统联络线随机功率波动幅值估计

吴俊利,叶承晋,龙厚印.含大规模风电的互联系统联络线随机功率波动幅值估计[J].电力工程技术,2017,36(03):12-16.

WU Junli, YE Chengjin, LONG Houyin. Amplitude Estimation of Tie-line Stochastic Power Fluctuation forInterconnection Power System with Large-scale Penetrated Wind Power[J]. Electric Power Engineering **Technology**, 2017,36(03):12-16.

**电力电子技术**

[1] 五相双绕组感应发电机励磁控制系统硬件设计与实现

潘子昊,王思齐,蒋志鹏,等.五相双绕组感应发电机励磁控制系统硬件设计与实现[J].电力工程技术,2017,36(03):17-21.

PAN Zihao, WANG Siqi, JIANG Zhipeng, et al. Hardware Design and Realization of Excitation Control System for Five-phase Dual Stator Winding Induction Generator[J]. Electric Power Engineering **Technology**, 2017,36(03):17-21.

[2] SSTS与DVR的协调控制策略

张宸宇,史明明,陈兵,等.SSTS与DVR的协调控制策略[J].电力工程技术,2017,36(03):22-27.

HANG Chenyu, SHI Mingming,  CHEN Bing, et al .Coordinated Control Strategv of SSTS and DVR[J]. Electric Power Engineering **Technology**, 2017,36(03):22-27.

[3] 一种提高系统稳定性的静止同步串联补偿器控制策略

朱鑫要,赵静波,周前,等.一种提高系统稳定性的静止同步串联补偿器控制策略[J].电力工程技术,2017,36(03):28-32+49.

ZHU Xinyao,  ZHAO Jingbo,  ZHOU Qian, et al .Control Strategy of Static Synchronous Series Compensatorto Improve Power System Stability[J]. Electric Power Engineering **Technology**, 2017,36(03):28-32+49.

**电网技术**

[1] 面向能源互联网的电力-通信联合仿真平台设计

宋晓健,喻洁,张俊芳,等.面向能源互联网的电力-通信联合仿真平台设计[J].电力工程技术,2017,36(03):44-49.

SONG Xiaojian, YU Jie,  ZHANG Junfang, et al. Design of Power Communication Simulation Platform for Energy Internet[J]. Electric Power Engineering **Technology**, 2017,36(03):44-49.

[2] 机组组合问题的仿射可调整鲁棒优化模型与算法

李利利,丁恰,涂孟夫,等.机组组合问题的仿射可调整鲁棒优化模型与算法[J].电力工程技术,2017,36(03):33-37.

LI Lili, DING Qia, TU Mengfu ,et al. Affinely Adjustable Robust Optimization Model and Algorithm for Unit Commitment Problem[J]. Electric Power Engineering **Technology**, 2017, 36(03): 33-37.

[3] ±500 kV多端柔性直流输电系统监视功能设计

庄卫金,王艳,孙名扬,等.±500 kV多端柔性直流输电系统监视功能设计[J].电力工程技术,2017,36(03):38-43+56.

ZHUANG Weijin, WANG Yan, SUN Mingyang , et al. MonitoringSolutions for a ±500 kV Multi-terminal VSC-HVDC Transmission System[J]. Electric Power Engineering **Technology**, 2017,36(03):38-43+56.

[4] 面向储能电站调度的光储发电系统运行优化策略研究

张国玉,洪超,陈杜琳,等.面向储能电站调度的光储发电系统运行优化策略研究[J].电力工程技术,2017,36(03):50-56.

ZHANG Guoyu,  HONG Chao,  CHEN Dulin, et al. Operation Optimization of Photovoltaic- energy Storage Hybrid System Based on Scheduling of Battery Energy Storage System[J]. Electric Power Engineering **Technology**, 2017,36(03):50-56.

[5] 考虑多安全性约束的风电场穿透功率极限研究

王深哲,高山,尤国伟,等.考虑多安全性约束的风电场穿透功率极限研究[J].电力工程技术,2017,36(03):57-61+81.

WANG Shenzhe,  GAO Shan,  YOU Guowei, et al. Wind Penetration Limitation Research Considered Multiple Security Constraints[J]. Electric Power Engineering **Technology**, 2017, 36(03):57-61+81.

[6] 高压开关柜局部放电声-电联合定位方法研究

霍天,吴振升,桂俊峰.高压开关柜局部放电声-电联合定位方法研究[J].电力工程技术,2017,36(03):62-66.

HUO Tian, WU Zhensheng, GUI Junfeng. Acoustic-electric Joint Localization Method of PD in High Voltage Switch Cabinet[J]. Electric Power Engineering **Technology**, 2017,36(03):62-66.

[7] 基于FPGA的多通道行波高速采集录波系统设计

赵玉灿,李彦,陈玉林,等.基于FPGA的多通道行波高速采集录波系统设计[J].电力工程技术,2017,36(03):67-70+93.

ZHAO Yucan, LI Yan,CHEN Yulin , et al. High Speed Acquisition and Recording System Design for Multi-channel Traveling Wave Based on FPGA[J]. Electric Power Engineering **Technology**, 2017, 36(03):67-70+93.

[8] 基于通用保护模型的保护操作校核系统的研究

祁忠,华煌圣,董传燕,等.基于通用保护模型的保护操作校核系统的研究[J].电力工程技术,2017,36(03):71-75.

QI Zhong, HUA Huangsheng,  DONGchuanyan, et al. Research of Relay Operation Verification Based on General Protection Model[J]. Electric Power Engineering **Technology**, 2017, 36(03): 71-75.

[9] 独立局域电网三道防线建设方案分析

夏彦辉,董宸,孙丹,等.独立局域电网三道防线建设方案分析[J].电力工程技术,2017,36(03):76-81.

XIA Yanhui, DONG Chen, SUN Dan,et al. Analysis on Construction Scheme of Three Defense Lines for Independent Local Power Grid[J]. Electric Power Engineering **Technology**, 2017, 36(03): 76-81.

[10] 紧急切负荷网荷互动终端设计与实现

陆玉军,李澄,陈颢,等.紧急切负荷网荷互动终端设计与实现[J].电力工程技术,2017,36(03):82-87+99.

LU Yujun, LI Cheng, CHEN Hao,et al. Design and Implementation of User Terminal Unit for Emergency Load Shedding[J]. Electric Power Engineering **Technology**, 2017,36(03):82-87+99.

[11] 峰谷电价下居民用电聚合响应特性分析

林启开,王珂,余昆,等.峰谷电价下居民用电聚合响应特性分析[J].电力工程技术,2017,36(03):88-93.

LIN Qikai, WANG Ke,  YU Kun,et al. Analysis on the Polymeric Response Characteristics of Residents Under the Peak and Valley Electricity Price[J]. Electric Power Engineering **Technology**, 2017, 36(03):88-93.

[12] 变电站用RTV涂料自动喷涂装备研制

王铭民,许建刚,杨小平,等.变电站用RTV涂料自动喷涂装备研制[J].电力工程技术,2017,36(03):94-99.

WANG Mingmin, XU Jiangang,  YANG Xiaoping,et al. Automatic Spraying Equipment Research of RTV on Substation[J]. Electric Power Engineering **Technology**, 2017,36(03):94-99.

**运行分析**

[1] 一起距离保护误动事例分析以及解决方案

沈军,张洪喜,王忠,等.一起距离保护误动事例分析以及解决方案[J].电力工程技术,2017,36(03):100-104.

SHEN Jun, ZHANG Hongxi, WANG Zhong ,et al. Analysis and Solution of a Distance Protection Mal-operation Case[J]. Electric Power Engineering **Technology**, 2017,36(03):100-104.

[2] 主变储油柜缺陷导致的油位异常分析及处理

罗恒,史秋芸,黄芬,等.主变储油柜缺陷导致的油位异常分析及处理[J].电力工程技术,2017,36(03):105-109.

LUO Heng, SHI Qiuyun, HUANG Fen,et al. Analysis and Treatment of Oil Level Abnormity Caused by Defects in Main Transformers[J]. Electric Power Engineering **Technology**, 2017, 36(03):105-109.

[3] 一起110kVCVT内部故障引起母线电压异常分析及处理

赵淼.一起110kVCVT内部故障引起母线电压异常分析及处理[J].电力工程技术,2017,36(03):110-114+119.

ZHAO Miao . Analysis and Treatment of Abnormal Bus Voltage Caused by Internal Fault of 110 kV Capacitor Voltage Transformer[J]. Electric Power Engineering **Technology**, 2017, 36(03): 110-114+119.

**发电技术**

[1] 燃煤锅炉煤质指标耗差分析方法研究

方超.燃煤锅炉煤质指标耗差分析方法研究[J].电力工程技术,2017,36(03):115-119.

FANG Chao . A Method for Energy-loss Analysis in Coal-quality Index for Coal-fired Boilers[J]. Electric Power Engineering **Technology**, 2017,36(03):115-119.

[2] 旋流燃烧锅炉低NO\_x改造后结渣分析与运行调整

[靖东平](http://s.wanfangdata.com.cn/Paper.aspx?q=%e4%bd%9c%e8%80%85%3a%22%e9%9d%96%e4%b8%9c%e5%b9%b3%22) .旋流燃烧锅炉低NO\_x改造后结渣分析与运行调整[J].电力工程技术,2017,36(03):120-124.

JING Dongping . Analysis and Operation Adjustment for Slagging After Low NOx Combustion Retrofit of Boiler with Swirl Burner[J]. Electric Power Engineering **Technology**, 2017,36(03):

120-124.

**第2期**

**专论与综述**

[1] 模块化多电平换流器电容电压均衡排序算法综述

熊岩,赵成勇,许建中.模块化多电平换流器电容电压均衡排序算法综述[J].电力工程技术,2017,36(02):1-8.

XIONG Yan, ZHAO Chengyong, XU Jianzhong. A Review of Ranking Algorithms for MMC Capacitor Voltages Balancing[J]. Electric Power Engineering **Technology**, 2017,36(02):1-8.

[2] 适用于有高差线路的覆冰输电导线ANSYS找形方法

谢云云,金颖,黄琳雁,等.适用于有高差线路的覆冰输电导线ANSYS找形方法[J].电力工程技术,2017,36(02):9-13+50.

XIE Yunyun,  JIN Ying,  HUANG Linyan,et al. Form-finding Method of Transmission Lines Consulting the Lowest Point[J]. Electric Power Engineering **Technology**, 2017,36(02):9-13+50.

[3] 机电-电磁暂态混合仿真复合非对称故障计算方法

杨洋,肖湘宁,甄晓晨.机电-电磁暂态混合仿真复合非对称故障计算方法[J].电力工程技术,2017,36(02):14-20.

YANG Yang,  XIAO Xiangning,  ZHEN Xiaochen. Calculation Method of Complex Asymmetrical Fault in Electromechanical and Electromagnetic Transient Hybrid Simulation[J]. Electric Power Engineering **Technology**, 2017,36(02):14-20.

**直流输电**

[1] 多端柔性直流输电系统直流电压模糊控制策略

刘志江,夏成军,杜兆斌.多端柔性直流输电系统直流电压模糊控制策略[J].电力工程技术,2017,36(02):21-26+87.

LIU Zhijiang, XIA Chengjun, DU Zhaobin. Research of DC Voltage Fuzzy Control Strategy for VSC-MTDC Systems[J]. Electric Power Engineering **Technology**, 2017,36(02):21-26+87.

[2] 面向特高压交直流大受端电网的频率紧急控制特性分析

李虎成,袁宇波,卞正达,等.面向特高压交直流大受端电网的频率紧急控制特性分析[J].电力工程技术,2017,36(02):27-31+109.

LI Hucheng,  YUAN Yubo,  BIAN Zhengda, et al. The Frequency Emergency Control Characteristic Analysis for UHV AC/DC Large Receiving End Power Grid[J]. Electric Power Engineering **Technology**, 2017,36(02):27-31+109.

[3] 特高压直流分层接入方式下层间交互影响研究

管永高,张诗滔,许文超.特高压直流分层接入方式下层间交互影响研究[J].电力工程技术,2017,36(02):32-37.

GUAN Yonggao, ZHANG Shitao, XU Wenchao. Study on Hierarchical Interaction of UHVDC Hierarchical Connection Mode[J]. Electric Power Engineering **Technology**, 2017,36(02):32-37.

**工程应用**

[1] 溪浙特高压直流工程PROFIBUSDP通信告警分析

曾丽丽.溪浙特高压直流工程PROFIBUSDP通信告警分析[J].电力工程技术,2017,36(02):38-42+98.

ZENG Lili . Analysis of PROFIBUS DP Alarm in Xizhe HVDC Project[J]. Electric Power Engineering **Technology**, 2017,36(02):38-42+98.

[2] 新一代安控装置集中管理系统设计及工程应用

忽浩然,沈凤杰,汤伟,等.新一代安控装置集中管理系统设计及工程应用[J].电力工程技术,2017,36(02):43-50.

HU Haoran,  SHEN Fengjie,  TANG Wei,et al. Design and Engineering Application of Centralized Management System for New Generation Security and Stability Control Devices[J]. Electric Power Engineering **Technology**, 2017,36(02):43-50.

[3] 江苏电网在线动态安全评估系统及应用研究

王大江,江叶峰,仇晨光,等.江苏电网在线动态安全评估系统及应用研究[J].电力工程技术,2017,36(02):51-55.

WANG Dajiang, JIANG Yefeng,  QIU Chenguang,et al.Research on the On-line Dynamic Security Assessment System and Application of Jiangsu Power Grid[J]. Electric Power Engineering **Technology**, 2017,36(02):51-55.

**电网技术**

[1] UPFC抑制电网强迫振荡研究

陈琼,蒋平.UPFC抑制电网强迫振荡研究[J].电力工程技术,2017,36(02):56-60.

CHEN Qiong, JIANG Ping . Research on UPFC for Suppressing Forced Oscillation in the Power System[J]. Electric Power Engineering **Technology**, 2017,36(02):56-60.

[2] T型三电平逆变器的中点平衡建模与控制

李勇,郭勇,皇甫星星,等.T型三电平逆变器的中点平衡建模与控制[J].电力工程技术,2017,36(02):61-65.

LI Yong, GUO Yong, HUANGFU Xingxing, et al. Modeling and Control of Neutral Point Voltage Balancing for T-Type Three-level Inverters[J]. Electric Power Engineering **Technology**, 2017,36(02):61-65.

[3] 含源网荷的智能配电网运行仿真平台研究及应用

张明,周冬旭,嵇文路,等.含源网荷的智能配电网运行仿真平台研究及应用[J].电力工程技术,2017,36(02):66-71.

ZHANG Ming,  ZHOU Dongxu,  JI Wenlu,et al. Research and Application of Intelligent Distribution Network Operation Simulation Platform Contains the Source and Network[J]. Electric Power Engineering **Technology**, 2017,36(02):66-71.

[4] 基于风险评估的特高压受端电网输电设备检修策略研究

杨晓辉,尹玉君,寇晓适.基于风险评估的特高压受端电网输电设备检修策略研究[J].电力工程技术,2017,36(02):72-75+93.

YANG Xiaohui, YIN Yujun,  KOU Xiaoshi. Research on the Maintenance Strategy of UHV Receiving End Power GridTransmission Equipment Based on Risk Assessment[J]. Electric Power Engineering **Technology**, 2017,36(02):72-75+93.

[5] 电压源型换流阀在绝缘型式试验下电场仿真计算

张栋,欧阳有鹏,尚慧玉,等.电压源型换流阀在绝缘型式试验下电场仿真计算[J].电力工程技术,2017,36(02):76-81.

ZHANG Dong, OUYANG Youpeng,  SHANG Huiyu, et al. Electric Field Simulation and Calculation of Voltage Sourced Converter Valve in Insulation Type Test[J]. Electric Power Engineering **Technology**, 2017,36(02):76-81.

[6] 一种用于电子式互感器相位补偿的数字移相方法

程含渺,徐晴,纪峰,等.一种用于电子式互感器相位补偿的数字移相方法[J].电力工程技术,2017,36(02):82-87.

CHENG Hanmiao, XU Qing,  JI Feng,et al. A Digital Phase-shift Method for Phase Compensation of Electronic Instrument Transformers[J]. Electric Power Engineering **Technology**, 2017, 36(02): 82-87.

[7] 基于PSD-SCCP与PSASP的短路电流计算研究

张曼,施超,许文超,等.基于PSD-SCCP与PSASP的短路电流计算研究[J].电力工程技术,2017,36(02):88-93.

ZHANG Man,  SHI Chao,  XU Wenchao, et al. Research on Calculation of Short-circuit Current Based on PSD-SCCP and PSASP[J]. Electric Power Engineering **Technology**, 2017, 36(02): 88-93.

[8] 基于超声波法的变压器重症监护系统研制及应用

陆云才,胡汉巧,蔚超,等.基于超声波法的变压器重症监护系统研制及应用[J].电力工程技术,2017,36(02):94-98.

LU Yuncai,  HU Hanqiao,  WEI Chao,et al. Development and Application of Transformer Intensive Care System Based on Ultrasonic Method[J]. Electric Power Engineering **Technology**, 2017, 36(02):94-98.

[9] 模块化多电平换流器2N+1电平调制方式研究

谭风雷.模块化多电平换流器2N+1电平调制方式研究[J].电力工程技术,2017,36(02):99-103+132.

TAN Fenglei. Research on 2N+1 Level Modulation Method of Modular Multilevel Converter[J]. Electric Power Engineering **Technology**, 2017,36(02):99-103+132.

[10] 不同材质电缆支架对电缆运行适用性研究

黄涛,文珊,王庭华,等.不同材质电缆支架对电缆运行适用性研究[J].电力工程技术,2017,36(02):104-109.

HUANG Tao, WEN Shan,  WANG Tinghua,et al. Research on Applicability of Different Material Cable Brackets to Cable Operation[J]. Electric Power Engineering **Technology**, 2017, 36(02):104-109.

[11] 特殊工况下基于三角形计算的高精度输电线路单端测距方法

冯畅,李峰,宋爽,等.特殊工况下基于三角形计算的高精度输电线路单端测距方法[J].电力工程技术,2017,36(02):110-115.

FENG Chang,  LI Feng,  SONG Shuang,et al. High Precision Single-ended Fault Location Method for Transmission Lines Based on Triangle Calculation in Special Wording Conditions[J]. Electric Power Engineering **Technology**,  2017,36(02):110-115.

[12] 采用源流路径电气剖分信息的DSSC成本分摊研究

张任桉齐,张锋.采用源流路径电气剖分信息的DSSC成本分摊研究[J].电力工程技术,2017,36(02):116-120+132.

ZHANG Renanqi, ZHANG Feng. Research on DSSC Cost Allocation Using Electrical Dissecting Informating in Paths between Sources and Flows in Power Grid[J]. Electric Power Engineering **Technology**, 2017,36(02):116-120+132.

**运行分析**

[1] 一种励磁变与离相封闭母线反相解决方案

熊良根,郑嵘,陈晓明.一种励磁变与离相封闭母线反相解决方案[J].电力工程技术,2017,36(02):121-126.

XIONG Lianggen, ZHENG Rong,  CHEN Xiaoming. A Solution for Resversed Phase-sequence of Excitation Transformen and Enclosure Type Isolated-phase Bus[J]. Electric Power Engineering **Technology**, 2017,36(02):121-126.

[2] 110 kV备自投动作行为分析

王辉,王传能,张永丰.110 kV备自投动作行为分析[J].电力工程技术,2017,36(02):127-132.

WANG Hui WANG Chuanneng ZHANG Yongfeng . Analysis of 110 kV Automatic Bus Transfer Equipment Action[J]. Electric Power Engineering **Technology**, 2017,36(02):127-132.

**第1期**

**专论与综述**

[1] 大规模光伏发电并网概率潮流计算及对电网的影响

金楚,黎嘉明,徐沈智,等.大规模光伏发电并网概率潮流计算及对电网的影响[J].电力工程技术,2017,36(01):1-8.

JIN Chu, LI Jiaming, XU Shenzhi , et al. Probabilistic Load Flow Calculation and Influence Analysis for Power Grid Connected with Large Scale Photovoltaic Generation System[J]. Electric Power Engineering **Technology**, 2017,36(01):1-8.

[2] 面向AGC的变速变桨风电机组有功功率控制策略

陈载宇,沈春,殷明慧,等.面向AGC的变速变桨风电机组有功功率控制策略[J].电力工程技术,2017,36(01):9-14.

CHEN Zaiyu,  SHEN Chun,  YIN Minghui, et al. Review of Active Power Control Strategy for Variable-speed Variable-pitch Wind Turbine Participating in AGC[J]. Electric Power Engineering **Technology**, 2017,36(01):9-14.

[3] 分频输电在海上风电并网应用中的前景和挑战

王秀丽,张小亮,宁联辉,等.分频输电在海上风电并网应用中的前景和挑战[J].电力工程技术,2017,36(01):15-19.

WANG Xiuli, ZHANG Xiaoliang,  NING Lianhui,et al. Application Prospects and Challenges of Fractional Frequency Transmission System in Offshore Wind Power Integration[J]. Electric Power Engineering **Technology**, 2017,36(01):15-19.

**工程应用**

[1] 统一潮流控制器在苏南500kV电网中的应用

李鹏,林金娇,孔祥平.统一潮流控制器在苏南500kV电网中的应用[J].电力工程技术,2017,36(01):20-24.

LI Peng, LIN Jinjiao, KONG Xiangping . Application of UPFC in the 500 kV Southern Power Grid of Suzhou[J]. Electric Power Engineering **Technology**, 2017,36(01):20-24.

[2] 基于稳控技术的源网荷友好互动精准负荷控制系统

罗建裕,李海峰,江叶峰,等.基于稳控技术的源网荷友好互动精准负荷控制系统[J].电力工程技术,2017,36(01):25-29.

LUO Jianyu, LI Haifeng, JIANG Yefeng,et al. Source Network Load Friendly Interactive and Precise Load Control System based on Stability Control Technology[J]. Electric Power Engineering **Technology**, 2017,36(01):25-29.

[3] 特高压GIS设备现场标准雷电冲击耐压试验技术的应用

文韬,张乔根,赵军平,等.特高压GIS设备现场标准雷电冲击耐压试验技术的应用[J].电力工程技术,2017,36(01):30-33+53.

WEN Tao，  ZHANG Qiaogen，  ZHAO Junping，et al. Application of On-site Standard Lightning Impulse Test Technology for UHV GIS Equipment[J]. Electric Power Engineering **Technology**, 2017,36(01):30-33+53.

**电网技术**

[1] 地铁能量回馈系统充电回路的优化方案

黄志高,刘洪德,连建阳,等.地铁能量回馈系统充电回路的优化方案[J].电力工程技术,2017,36(01):95-97+105.

WEN Tao,  ZHANG Qiaogen,  ZHAO Junping,et al. Application of On-site Standard Lightning Impulse Test Technology for UHV GIS Equipment[J]. Electric Power Engineering **Technology**, 2017, 36(01):95-97+105.

 [2] 基于半不变量和Gram-Charlier级数展开法的随机潮流算法

卫鹏,刘建坤,周前,等.基于半不变量和Gram-Charlier级数展开法的随机潮流算法[J].电力工程技术,2017,36(01):34-38.

WEI Peng,  LIU Jiankun,  ZHOU Qian,et al.A Probabilistic Power Flow Algorithm Based on Semi-variable and Gram-Charlier Series Expansion[J]. Electric Power Engineering **Technology**, 2017, 36(01):34-38.

[3] 一种基于方向行波的多端VSC-HVDC系统保护策略

李岩,龚雁峰,姜斌.一种基于方向行波的多端VSC-HVDC系统保护策略[J].电力工程技术,2017,36(01):70-73+83.

LI Yan, GONG Yanfeng, JIANG Bin. A Protection Scheme for Multiterminal VSC-HVDC System Based on Direction Traveling Waves[J]. Electric Power Engineering **Technology**, 2017, 36(01): 70-73+83.

[4] 孤网全黑状态的恢复网架和分区优化算法

陈祺炜,吴熙,李海峰,等.孤网全黑状态的恢复网架和分区优化算法[J].电力工程技术,2017,36(01):74-78.

CHEN Qiwei,  WU Xi,  LI Haifeng,et al. Recovery Network and Partition Optimization Algorithm of Isolated Networks Under the Full Black State[J]. Electric Power Engineering **Technology**, 2017,36(01):74-78.

[5] 虚拟同步发电机的相角控制方法

李旭,丁勇,李勇,等.虚拟同步发电机的相角控制方法[J].电力工程技术,2017,36(01):43-46.

LI Xu, DING Yong, LI Yong ,et al. Phase angle control method of Virtual Synchronous Generator[J]. Electric Power Engineering **Technology**, 2017,36(01):43-46.

[6] 混合直流双桥换相失败机理及抑制措施研究

李猛,夏成军,杜兆斌.混合直流双桥换相失败机理及抑制措施研究[J].电力工程技术,2017,36(01):47-53.

LI Meng, XIA Chengjun, DU Zhaobin . Research on the Mechanism and Suppression Method of Double Bridge Discontinuous Commutation Failure in Hybrid HVDC[J]. Electric Power Engineering **Technology**, 2017,36(01):47-53.

[7] 柔性直流输电网的电压控制原理研究

徐政,张哲任,刘高任.柔性直流输电网的电压控制原理研究[J].电力工程技术,2017,36(01):54-59.

XU Zheng,ZHANG Zheren,  LIU Gaoren. Research on Voltage Control Principle of Flexible DC Transmission Power Grid[J]. Electric Power Engineering **Technology**, 2017,36(01):54-59.

[8] 基于IEC61970/61968的配电网通信系统信息建模

楚成彪,郝思鹏,吴善.基于IEC61970/61968的配电网通信系统信息建模[J].电力工程技术,2017,36(01):60-64.

CHU Chengbiao,  HAO Sipeng,  WU Shan. Information Modeling of Distribution Network Communication System Based on IEC 61970/968[J]. Electric Power Engineering **Technology**, 2017, 36(01):60-64.

[9] 热倒母线操作合闸可靠性在线预警技术研究

黄哲忱,袁宇波,张小易,等.热倒母线操作合闸可靠性在线预警技术研究[J].电力工程技术,2017,36(01):65-69+78.

HUANG Zhechen, YUAN Yubo,  ZHANG Xiaoyi,et al. Research of Online Alerting Technology for Bus Switching Reliability[J]. Electric Power Engineering **Technology**, 2017,36(01):65-69+78.

[10] 双馈型风电场双层无功分配策略

张文,阙波,韦古强,等.双馈型风电场双层无功分配策略[J].电力工程技术,2017,36(01):79-83.

ZHANG Wen, QUE Bo,  WEI Guqiang, et al. Hierarchical Distribution Strategy of Reactive Power for DFIG Wind Farm[J]. Electric Power Engineering **Technology**, 2017,36(01):79-83.

[11] 特高压直流工程的融冰控制保护策略及试验分析

薛海平,赵森林,卢亚军,等.特高压直流工程的融冰控制保护策略及试验分析[J].电力工程技术,2017,36(01):84-90.

XUE Haiping,  ZHAO Senlin,  LU Yajun,et al. Analysis of Control and Protection Strategy and Test for De-icing mode in UHVDC Project[J]. Electric Power Engineering **Technology**, 2017, 36(01):84-90.

[12] 基于谷歌眼镜的智能变电站实时数据展示与智能分析技术

徐长福,陶风波,龚雁峰,等.基于谷歌眼镜的智能变电站实时数据展示与智能分析技术[J].电力工程技术,2017,36(01):91-94.

XU Changfu,  TAO Fengbo,  GONG Yanfeng,d\et al. Real-time Data Demonstration and Intelligent Analysis Technology for Smart Substation Inspection Based on Google Glass[J]. Electric Power Engineering **Technology**, 2017,36(01):91-94.

[13] 基于加速退化试验数据的智能电能表早期失效分析

田正其,徐晴,金萍,等.基于加速退化试验数据的智能电能表早期失效分析[J].电力工程技术,2017,36(01):98-101+112.

## TIAN Zhengqi ,XU Qing, JIN Ping , et al . Early Failure Analysis of the Intelligent Watt-hour Meter Based on the Accelerated Degradation Test Data[J]. Electric Power Engineering Technology, 2017, 36(01):98-101+112.

[14] 计及UPFC的220kV分区电网运行可靠性研究

王薪苹,李群,刘建坤,等.计及UPFC的220kV分区电网运行可靠性研究[J].电力工程技术,2017,36(01):39-42+46.

WANG Xinping,  LI Qun,  LIU Jiankun,et al. Operating Reliability Research of 220 kV Divisional Power Grid Considering UPFC[J]. Electric Power Engineering **Technology**, 2017, 36(01): 39-42+46.

**运行分析**

[1] 电缆GIS终端环氧套管开裂原因分析及对策研究

胡鹏,李成钢,陈大兵.电缆GIS终端环氧套管开裂原因分析及对策研究[J].电力工程技术,2017,36(01):102-105.

HU Peng, LI Chenggang, CHEN Dabing . Cause Analysis and Countermeasure Study of Cracking Accident of Cable GIS Terminal Epoxy Casing[J]. Electric Power Engineering **Technology**, 2017,36(01):102-105.

[2] 一起励磁系统通道异常导致的故障分析

戴申华.一起励磁系统通道异常导致的故障分析[J].电力工程技术,2017,36(01):106-108.

DAI Shenhua. Analysis of the Trip Caused by Abnormal Channel of Excitation System[J]. Electric Power Engineering **Technology**, 2017,36(01):106-108.

**发电技术**

[1] 抽水蓄能电站SFC的应用与参数优化

单华,彭宇菲,徐钢.抽水蓄能电站SFC的应用与参数优化[J].电力工程技术,2017,36(01):109-112.

SHAN Hua, PENG Yufei,  Xu Gang.Application and Parameter Optimization of SFC in Pumped Storage Power Plant[J]. Electric Power Engineering **Technology**, 2017,36(01):109-112.

[2] 1000MW二次再热超超临界汽轮机组摩擦故障分析与处理

马运翔,薛江涛,刘晓锋,等.1000MW二次再热超超临界汽轮机组摩擦故障分析与处理[J].电力工程技术,2017,36(01):113-116.

MA Yunxiang, XUE Jiang tao, LIU Xiaofeng ,et al. Fault Diagnosis for a Rub Vibration Problem Occurred in a 1000 MW Ultra-supercritical Steam Turbine Unit with Double Reheat Cycles[J]. Electric Power Engineering **Technology**, 2017,36(01):113-116.