

■ 湖南省一级期刊

《中国学术期刊影响因子年报》统计源期刊

刊号:ISSN 1008-0198
CN 43-1271/TK

湖南电力

HUNAN ELECTRIC POWER

《中国期刊全文数据库》《中国学术期刊综合评价数据库》全文收录
《中国核心期刊(遴选)数据库》《中文科技期刊数据库》



ISSN 1008-0198



9 771008 019202



万方数据

国网湖南省电力有限公司电力科学研究院
湖南省电机工程学会主办

第40卷
双月刊
2020年12月



目 次

研究与试验

- ±800 kV 同塔双回线路带电作业电场防护仿真分析 白剑锋, 张惺, 温智慧, 赵蓉, 高峰 (1)
基于自适应陷波的光伏逆变器谐振抑制方法 李圣清, 沈志超, 彭自然, 何元铭, 谷昕鹏 (5)
小水电退网对地区电网潮流分布的影响 陈辉, 王文烨, 熊龙珠, 邓杰, 姜飞 (12)
高压电缆缓冲层缺陷数字 X 射线无损检测技术研究 刘三伟, 段肖力, 黎刚, 谢亿, 黄福勇 (18)
输电线路耐张线夹压接质量带电检测技术 欧阳克俭, 曹先慧, 屈国民, 杨森, 谢亿, 刘贊, 谢阿萌 (22)
基于最小二乘参数辨识的电缆早期电弧故障测距 张璇, 周正雄, 朱鹏 (25)
粗粉分离器细度调节特性的试验研究 周亮, 陈文 (32)
230 MHz 电力无线专网网络优化研究 陈小惠, 杨芳僚, 刘津, 聂海涛 (36)

新技术及应用

变压器套管运行状态自动检测技术现状分析

- 周可慧, 肖剑, 张可人, 徐先勇, 唐海国, 王珂, 朱吉然 (40)
可见光影像与激光雷达点云融合技术在配网树障巡检中的应用 吴锦秋, 刘汉君, 杨家开, 陈宇浩 (45)
湖南地区变电站装配式防火墙试点应用研究 文飞, 周贊, 柳灿 (49)

经验与探讨

- 超高压输电线路复合瓷绝缘子的运行状况分析 ... 廖兴华, 巢亚锋, 岳一石, 王珂, 段建家, 王成 (53)
一种基于电化学储能的配电变压器动态增容装置研制 余斌, 黎刚, 朱光明, 万代, 欧阳帆, 朱维钧, 梁文武 (59)
1 000 MW 超超临界机组凝泵永磁调速器的配套设计 蒋华, 霍幼文 (63)
集成 BIM 与物联网技术的电力工程智能监管系统 蒋成, 刘新, 周勇, 吴小虎 (67)
火电机组发变组离相母线系统绝缘研究与应用 黄磊 (73)
某 500 kV 架空老旧线路拉 V 塔结构优化设计研究 冯超, 乔磊, 李伟, 曹先慧, 岳一石 (77)
换流站电压应力保护判据优化研究 刘昊然, 刘源, 蒋童璐, 周心怡, 姚月 (81)

故障与分析

- 一起 10 kV 电力电缆群集中烧损典型故障分析 万代, 齐飞, 周恒逸, 赵邈, 段绪金, 黄耀旗 (84)
主变压器零序过电压保护动作分析与对策 肖俊先, 王珂, 李林山, 董国琴, 徐浩 (88)

- 《湖南电力》2020 年总目次 (92)

HUNAN ELECTRIC POWER

(Bimonthly)
2020 No. 6 Vol. 40(Ser. 259)

CONTENTS

Researches and Tests

Simulation Analysis of Electric Field Protection for ±800 kV Double Circuits Transmission Lines on the Same Tower	BAI Jianfeng, ZHANG Xing, WEN Zhihui, ZHAO Rong, GAO Feng (1)
Photovoltaic Inverter Resonance Suppression Method Based on Adaptive Notch	LI Shengqing, SHEN Zhichao, PENG Ziran, HE Yuanming, GU Xinpeng (5)
Influence of Small Hydropower Withdrawal on Power Flow Distribution in Regional Power Grid	CHEN Hui, WANG Wenye, XIONG Longzhu, DENG Jie, JIANG Fei (12)
Research on Digital X-Ray Non-destructive Testing Technology of Cable Buffer Layer Defects	LIU Sanwei, DUAN Xiaoli, LI Gang, XIE Yi, HUANG Fuyong (18)
Live Detection Technologyof Tension-resistant Clamp Quality for Transmission Lines	OUYANG Keji , CAO Xianhui , QU Guomin , YANG Miao, XIE Yi , LIU Yun , XIE Ameng (22)
Cable Incipient Arc Fault Location Based on Least Square Parameter Identification	ZHANG Xuan, ZHOU Zhengxiong, ZHU Peng (25)
Experimental Research on Fineness Adjustment Characteristics of Coarse Powder Separator	Zhou Liang, Chen Wen (32)
Research on Optimization of 230MHz Electric Power Wireless Private Network	CHEN Xiaohui, YANG Fangliao, LIU Jin, NIE Haitao (36)

New technology and Application

Analysis on Current Situation of Operating Status Automatic Detection Technology for Transformer Bushing	ZHOU Kehui, XIAO Jian, ZHANG Keren, XU Xianyong, TANG Haiguo, WANG Ke, ZHU Jiran (40)
Application ofVisible Image and LiDAR Point Cloud Fusion Technology in Distribution Network Tree Barrier Inspection	WU Jinqiu, LIU Hanjun, YANG Jiakai, CHEN Yuahao (45)
Pilot Application Research of Assembled Firewall in Hunan Substations	WEN Fei, ZHOU Zan, LIU Can (49)

Experience and Discussion

Analysis of Operation Status of Cap and Pin Suspension Ceramic Insulator for UHV Transmission Line	LIAO Xinghua, CHAO Yafeng, YUE Yishi, WANG Ke ³ , DUAN Jianjia, WANG Cheng (53)
Development of a Dynamic Capacity Increasing Device for Distribution Transformer Based on Electrochemical Energy Storage	YU Bin, LI Gang, ZHU Guangming, WAN Dai, OUYANG Fan, ZHU Weijun, LIANG Wenwu (59)
Matching Design of Condensate Pump Permanent Magnet Governor for 1 000 MW Ultra Supercritical Unit	JIANG Hua, HUO Youwen (63)
Power Engineering Intelligent Supervision System Integrated with BIM and Internet of Things Technology	JIANG Cheng, LIU Xin, ZHOU Yong, WU Xiaohu (67)
Research and Application on Insulation of Generator-transformer Isolated Phase Busbar System for Thermal Power Unit	HUANG Lei (73)
Research on Structural Optimization Design of 500 kV Old Overhead Line ZV Tower	FENG Chao, QIAO Lei, LI Wei, CAO Xianhui, YUE Yishi (77)
Research on Optimization of Voltage Stress Protection Criterion for Converter Station	LIU Haoran, LIU Yuan, JIANG Tonglu, ZHOU Xinyi, YAO Yue (81)

Faults and Analysis

Analysis of a Typical Fault of 10 kV Power Cable Group Burning Loss	WAN Dai, QI Fei, ZHOU Hengyi, ZHAO Miao, DUAN Xujin, HUANG Yaoqi (84)
Analysis and Countermeasures of Main Transformer Zero Sequence Overvoltage Protection Action	XIAO Junxian, WANG Ke, LI Linshan, DONG Guoqin, XU Hao (88)

欢迎订阅《湖南电力》



邮发代号：42-295

定价：20元 全年价：120元

刊号：ISSN 1008-0198
CN 43-1271/TK