

全国中文核心期刊
中国科技核心期刊

中国科学引文数据库(CSCD)核心期刊
荷兰《文摘与引文数据库》收录期刊

ISSN 1674-3415
CN 41-1401/TM
CODEN DXBYAZ

电力系统保护与控制

Power System Protection and Control



许继集团有限公司
XJ GROUP CORPORATION



400-01-95598

全面升级 全新体验

商务咨询·采购意向
技术交流·方案沟通

安装调试·运行维护
投诉建议·表彰表扬

地址:河南省许昌市许继大道1298号

邮编:461000

网址:www.xjgc.com



9 771674 341201
万方数据

许昌开普电气研究院有限公司 主办

2020

第48卷

第8期

8

总第554期

电力系统保护与控制

DIANLI XITONG BAOHU YU KONGZHI

第 48 卷第 8 期(总第 554 期) 2020 年 4 月 16 日出版

目次

理论分析

- 一种基于 PMU 和 SCADA 单节点互校核的前端数据辨识框架 刘雯静, 杨军, 袁文, 等(1)
- 基于有向图的配网供电能力实用计算方法 张雅迪, 方朝雄, 张林垚, 等(10)
- 基于灰云证据推理规则的电力推进船舶电能质量在线评估 顾思宇, 施伟锋, 兰莹, 等(17)
- 一种配电网基于模型诊断的最小碰集改进算法 林梅芬, 陈婷, 王秋杰, 等(25)

应用研究

- 基于时序运行模拟的山东电网光伏发电消纳能力评估 田鑫, 张健, 李雪亮, 等(34)
- 混压同塔四回线路跨电压故障选相元件动作分析与对策研究 郑涛, 吴琮, 于溯, 等(44)
- 含双边储备市场及绿证交易的现货市场分析 魏震波, 隋东旭, 王瀚琳, 等(52)
- 交直流混杂环境下三相变压器绕组振动研究 刘天舒, 苏昊, 潘超(61)
- 基于增量模型的永磁同步直线电机鲁棒预测电流控制 王金兵, 沈艳霞(69)
- 基于改进遗传算法的电网投资组合预测方法 刘巍, 李锰, 李秋燕, 等(78)
- FACTS 装置对含风电互联系统低频振荡特性分析 和萍, 陈捷, 耿斯涵, 等(86)
- 基于多层极限学习机的电能质量扰动多标签分类算法 靳果, 朱清智, 孟阳, 等(96)
- 识别电力系统密集振荡模式的模态灵敏度方法 李奕欣, 马燕峰, 赵书强(106)
- 基于 ESO-Backstepping 的直流微电网母线电压稳定控制 吴忠强, 王云青, 赵德隆, 等(112)

设计开发

- 双馈风电场接入串补输电系统引发次同步谐振的研究模型 杨博闻, 占颖, 谢小荣, 等(120)
- 交流电参数的卷积窗加权测量及其单片机实现 陈砚圃, 张介秋, 谭薇(127)

工程应用

- 基于低频电流注入的船舶直流微电网线路阻抗检测 张勤进, 张博, 刘彦呈, 等(134)
- V2G 模式下微网电动汽车有序充电策略研究 陈明强, 高健飞, 畅国刚, 等(141)
- 基于 PSO-DBN 神经网络的光伏短期发电出力预测 李正明, 梁彩霞, 王满商(149)
- 大容量岸电系统接入电网的影响及优化策略研究 郭元战, 魏云冰, 李长庆, 等(155)
- 基于网络传播特性的配电网电压暂降随机预估方法 谢伟伦, 薛峰, 黄志威(163)

综述

- 深度学习理论及其在电机故障诊断中的研究现状与展望 丁石川, 厉雪衣, 杭俊, 等(172)

Power System Protection and Control

(Semimonthly)

Vol. 48 No. 8 (Ser. 554)

Apr. 16, 2020

CONTENTS

Theoretical Analysis

- A front-end data identification framework based on single-node mutual checking between PMU and SCADA *LIU Wenjing, YANG Jun, YUAN Wen, et al*(1)
- A practical solution for supply capability of a distribution network based on an oriented graph *ZHANG Yadi, FANG Chaoxiong, ZHANG Linyao, et al*(10)
- Power quality online assessment of all-electric ship based on grey cloud evidential reasoning *GU Siyu, SHI Weifeng, LAN Ying, et al*(17)
- An improved minimum set algorithm for model-based diagnosis of a distribution network *LIN Meifen, CHEN Ting, WANG Qiujie, et al*(25)

Application Research

- Evaluating photovoltaic accommodation ability for the Shandong power system based on sequential operation simulation *TIAN Xin, ZHANG Jian, LI Xueliang, et al*(34)
- Analysis of the performance of a phase selector for a cross-voltage fault in mixed-voltage four-circuit transmission lines and countermeasures *ZHENG Tao, WU Qiong, YU Su, et al*(44)
- Spot market analysis including bilateral reserve market and green certificate trading *WEI Zhenbo, SUI Dongxu, WANG Hanlin, et al*(52)
- Research on winding vibration of a three-phase transformer under an AC/DC hybrid environment *LIU Tianshu, SU Hao, PAN Chao*(61)
- Robust predictive current control for a permanent magnet synchronous linear motor based on an incremental model *WANG Jinbing, SHEN Yanxia*(69)
- Power grid portfolio forecasting method based on an improved genetic algorithm *LIU Wei, LI Meng, LI Qiuyan, et al*(78)
- Analysis of FACTS device on low-frequency oscillation characteristics of a power system with wind farm integration *HE Ping, CHEN Jie, GENG Sihan, et al*(86)
- Power quality disturbances multi-label classification algorithm based on a multi-layer extreme learning machine *JIN Guo, ZHU Qingzhi, MENG Yang, et al*(96)
- Modal sensitivity method for identifying close modes in a power system *LI Yixin, MA Yanfeng, ZHAO Shuqiang*(106)
- Research on bus voltage stability control of DC microgrid based on ESO-Backstepping *WU Zhongqiang, WANG Yunqing, ZHAO Delong, et al*(112)

Design and Development

- A study model for subsynchronous resonance in DFIG based wind farms connected to a series-compensated power system *YANG Bowen, ZHAN Ying, XIE Xiaorong, et al*(120)
- Convolution window weighted measurement for AC parameters and its MCU implementation *CHEN Yanpu, ZHANG Jieqiu, TAN Wei*(127)

Engineering Application

- A line impedance detection of a ship DC microgrid based on low frequency current injection *ZHANG Qinjin, ZHANG Bo, LIU Yancheng, et al*(134)
- Research on orderly charging strategy of micro-grid electric vehicles in V2G model *CHEN Mingqiang, GAO Jianfei, CHANG Guogang, et al*(141)
- Short-term power generation output prediction based on a PSO-DBN neural network *LI Zhengming, LIANG Caixia, WANG Manshang*(149)
- Research on the influence and optimization strategy of a large capacity shore power system connecting to power grid *GUO Yuanzhan, WEI Yunbing, LI Changqing, et al*(155)
- Stochastic estimation method of voltage sags for a distribution network based on network propagation property *XIE Weilun, XUE Feng, HUANG Zhiwei*(163)

Survey

- Deep learning theory and its application to fault diagnosis of an electric machine *DING Shichuan, LI Xueyi, HANG Jun, et al*(172)