

《四川电力技术》
编辑委员会

主任委员 刘勇
副主任委员 王平
刘俊勇
委员(按姓氏笔画笔形为序)
丁理杰 邓亚军 甘德刚
田立峰 李镇义 朱国俊
朱康 刘天琪 苏少春
杨子辛 肖红 吴广宁
余熙 邹见效 陈缨
胡灿 袁邦亮 徐波
董秀成 韩晓言 曾嘉志
秘书 李世平
程文婷

目次

· 电网技术研究 ·
基于回溯迭代搜索-粒子群算法的配电网无功优化研究
..... 杨春生,周巍巍,魏海春,赵希宝,黄浩军(1)
MMC-MTDC 输电系统频率协调控制策略
..... 杨林,邓鸿强,邓云仁,陈浩(6)
基于 MMC 的柔性直流系统控制策略研究 梁明,孟鑫,薛一鸣,王军成(14)
基于光伏-蓄电池-超级电容的微电网协调控制策略
..... 张谦,蒋永梅,丁敏,金武杰,金晨星(19)
考虑分布式再生能源和储能的主动配电网可靠性评估
..... 刘旭娜,魏俊,周瑜璐,张景瑞,张伟(23)
基于云计算平台实现电网短期负荷预测算法的研究
..... 王帅,赵建平,王志远,谢广(29)
地铁牵引供电系统接入对电网电能质量影响分析..... 王宇飞,徐琳(33)
新电改下发电偏差最小的水电中长期调度模型研究
..... 白智丹,余熙,朱燕梅,武云霞,黄天意,谢荻雅(37)
· 高电压技术研究 ·
特高压线路瓷绝缘子污秽分布特性研究
..... 李世平,范超,郭裕钧,张血琴,肖章,王耀振(41)
220 kV MOA 带电测量相间干扰的研究与分析 何大猛,王仲奕(47)
输电线路硬质管母线发热分析
..... 赵强,刘意,邱中华,陈波,马志方,王鸿,周静,郭定海(52)
· 新能源发电技术研究 ·
基于 GA-SVR 数据融合的风机噪声预测
..... 余金,宋新甫,高明,张增强,李海峰(57)
V²C 控制 Buck 变换器输出电容 ESR 临界值研究 游志昆(63)
· 经验交流 ·
LTB245E1 型断路器机构缺陷的分析
..... 熊攀,王嘉易,李辉,李逢兵,贾志杰,董汉彬(68)
采用带间隙避雷器降低 10 kV 架空线路跳闸率的应用
..... 刘起钟,张剑平,杨万波,梁伟,吴开良,罗丹(72)
基于声电联合检测技术的高压开关柜局部放电缺陷分析及整改措施研究
..... 王嘉易,李刚,贾志杰,丁澄,罗洋,董汉彬(75)
北京经济技术开发区电缆双环网与电缆直配双射网的运行对比分析 刘保全(79)
一种新型防窃电策略的研究与实现 任燕康,杜立斐,宋剑,李剑,甯锐(83)
基于 PMS-ERP 流程管理的大修技改项目精益化提升研究 庄秋月,李凡红(90)

四川电力技术

双月刊 1978 年创刊

中国标准连续出版物号:

ISSN1003-6954
CN51-1315/TM

2019 年第 42 卷第 1 期(总 259 期)

主管单位:四川省电力公司
主办单位:四川省电机工程学会
四川电力科学研究院

发行范围:公开

主 编:陈 缨
副 主 编:程文婷

编辑出版:《四川电力技术》编辑部
发 行:四川电力科学研究院
地 址:成都市锦晖西二街 16 号
邮政编码:610041

电话:(028)69995169,69995168,69995165
E-mail:cdscdljs@163.com

印 刷:四川科锐得文化传播有限公司
封面设计:成都宏泰广告有限公司

国内定价:每册 6.00 元

[期刊基本参数]CN51-1315/TM*1978*
b*A4*94*zh*P*¥6.00*3000*20*
2019-2

CONTENTS

· Research on Power Grid Technology ·

- Research of Reactive Power Optimization in Distribution Network Based on Particle Swarm Optimization Algorithm Integrated with Backtracking Iterative Search Yang Chunsheng, Zhou Weiwei, Wei Haichun, Zhao Xibao, Huang Haojun(1)
- Frequency Coordinated Control Strategy for MMC – MTDC Transmission System
..... Yang Lin, Deng Hongqiang, Deng Yunren, Chen Hao(6)
- Research on Flexible HVDC System Control Strategy Based on MMC Liang Ming, Meng Xin, Xue Yiming, Wang Juncheng(14)
- A Coordinated Control Strategy of Micro – grid Based on PV, BES and SC Zhang Qian, Jiang Yongmei, Ding Min, Jin Wujie, Jin Chenxing(19)
- A Reliability Evaluation Method of Active Distribution Network Considering Distributed Generations and Batteries
..... Liu Xuna, We Jun, Zhou Yulu, Zhang Jingrui, Zhang Wei(23)
- Research on Short – term Load Forecasting Algorithm Based on Cloud Computing Platform
..... Wang Shuai, Zhao Jianping, Wang Zhiyuan, Xie Guang(29)
- Analysis on Integration Effect of Metro Traction Power Supply System on Grid Power Quality Wang Yufei, Xu Lin(33)
- Research on Mid – longTerm Dispatching Model of Hydropower Based on Minimization of Power Generation Deviation Under New Situation of Electricity System Reform Bai Zhidan, Yu Xi, Zhu Yanmei, Wu Yunxia, Huang Tianyi, Xie Diya(37)

· Research on High – voltage Technology ·

- Research on Pollution Distribution Characteristics of Ceramic Insulators in UHV Transmission Lines
..... Li Shiping, Fan Chao, Guo Yujun, Zhang Xueqin, Xiao Zhang, Wang Yaozhen(41)
- Research and Analysis on Interphase Interference of On – line Measurement for 220 kV Metal Oxide Arrester He Dameng, Wang Zhongyi(47)
- Analysis on Overheating of Hard Tube Bus of Transmission Line
..... Zhao Qiang, Liu Yi, Qiu Zhonghua, Chen Bo, Ma Zhifang, Wang Hong, Zhou Jing, Guo Dinghai(52)

· Research on New Energy Generation Technology ·

- Noise Prediction of Wind TurbineBased on Data Fusion of GA – SVR Yu Jin, Song Xinfu, Gao Ming, Zhang Zengqiang, Li Haifeng(57)
- Research on Critical ESR of Output Capacitor for V²C Controlled Buck Converter You Zhikun(63)

· Experience Sharing ·

- Analysis on Fault of Operating Mechanism in LTB245E1 – BLK222 Circuit Breaker
..... Xiong Pan, Wang Jiayi, Li Hui, Li Fengbing, Jia Zhijie, Dong Hanbin(68)
- Reducing Trip – out Rate of 10 kV Overhead Line by Application of Arrester with Gaps
..... Liu Qizhong, Zhan Jianping, Yang Wanbo, Liang Wei, Wu Kailiang, Luo Dan(72)
- Partial DischargeDefect Analysis of High – voltage Switchgear Based on Detection Technology Combined Ultrasonic and Electrical and Research on Its Improvement Measures Wang Jiayi, Li Gang, Jia Zhijie, Ding Cheng, Luo Yang, Dong Hanbin(75)
- Comparison and Analysis on Operation of Cable Double Ring Network and Cable Direct – attached Dual – beam Network in Beijing Economic and Technological Development Zone Liu Baoquan(79)
- Research and Realization of A New Electricity – stealing Prevention Strategy Ren Yankang, Du Lifei, Song Jian, Li Jian, Ning Rui(83)
- Research on Lean Improvement of Overhaul and Technical Reform Project Based on PMS – ERP Process Management
..... Zhuang Qiuyue, Li Fanhong(90)

SICHUAN ELECTRIC POWER
TECHNOLOGY

2019 Vol. 42 No. 1

(Ser. No. 259)

Bimonthly, Started in 1978

Address: No. 16, 2ND Jinhui West Street, Chengdu, Sichuan,
China

Postcode: 610041

Sponsor:

Sichuan Society of Electrical Engineering

Sichuan Electric Power Research Institute

Editor in chief: Chen Ying

Editor & Publisher:

Editorial Department of SICHUAN ELECTRIC POWER
TECHNOLOGY