

电工电能新技术

DIANGONG DIANNENG XINJISHU

第 39 卷第 11 期(总第 209 期)

2020 年 11 月

目 次

论 文 报 告

- 感应电能传输系统能量双向传输切换控制策略研究 姜龙斌,史黎明,殷正刚(1)
无线电能传输阵列式差分线圈金属异物检测方法 张 献,付志远,薛 明(9)
高频变压器介质阻挡放电现象实验研究 陈昶文,王少宁,徐恒通(18)
考虑频率约束的含储能低惯量电网机组组合和经济调度 徐正清,王春明,郑焕坤,李玉凯,等(25)
地区电网多场景运行品质的熵权-贝叶斯模糊 AHP 评估 张 华,滕予非,段翔兮,陈 智,等(33)
盘式磁流体发电机中最佳种子份数变化规律研究 方秀珍,彭爱武,刘保林(41)

综 述 与 述 评

- 锂离子电容器在新能源领域应用展望 张晓虎,孙现众,张 熊,安亚斌,等(48)

新 技 术 应 用

- 基于多变压器的双极性 Marx 电路 吴兆康,陈希有,牟宪民,吴茂鹏(59)
柔性直流系统新型故障限流技术研究 滕尚甫,肖立业,张志丰,韦统振,等(66)
含光伏发电系统的配电网谐波责任评定方法 王清亮,高 梅,梁佩佩,王雷刚(73)

ADVANCED TECHNOLOGY OF ELECTRICAL ENGINEERING AND ENERGY

Vol. 39 No. 11 Nov. 2020

CONTENTS

Treatise and Report

- Switching control strategy of energy transmission of bidirectional inductive power transfer system JIANG Long-bin, SHI Li-ming, YIN Zheng-gang (1)
- Method for detecting metal foreign object by array differential coil in wireless power transfer system ZHANG Xian, FU Zhi-yuan, XUE Ming, et al. (9)
- Experimental study on dielectric barrier discharge of high frequency transformer CHEN Chang-wen, WANG Shao-ning, XU Heng-tong (18)
- Frequency constrained unit commitment and economic dispatch with storage in low-inertia power system XU Zheng-qing, WANG Chun-ming, ZHENG Huan-kun, et al. (25)
- Entropy weight-Bayesian fuzzy AHP evaluation of multi-scenario operation quality of regional power grid ZHANG Hua, TENG Yu-fei, DUAN Xiang-xi, et al. (33)
- Study on changing rule of optimal seed fraction in disk MHD generator FANG Xiu-zhen, PENG Ai-wu, LIU Bao-lin (41)

Summary and Review

- Prospect of lithium-ion capacitor application in new energy field ZHANG Xiao-hu, SUN Xian-zhong, ZHANG Xiong, et al. (48)

New Technology Application

- Bipolar Marx circuit based on multiple transformers WU Zhao-kang, CHEN Xi-you, MU Xian-min, et al. (59)
- Research on novel fault current limiting technology for MMC-HVDC system TENG Shang-fu, XIAO Li-ye, ZHANG Zhi-feng, et al. (66)
- Harmonic responsibility evaluation of distribution network containing photo-voltaic power generators WANG Qing-liang, GAO Mei, LIANG Pei-pei, et al. (73)