

## 目 次

### 论文报告

- 一种模块化多电平换流器动态组合实时仿真模型 ..... 沈卓轩,郭琦,姜齐荣,郭海平,等(1)
- 含双有源桥式 DC-DC 变换器的多端直流系统稳定性分析 ..... 刘 垚,孔 力,邓 卫,裴 玮(10)
- 基于耦合电感的低电压应力高增益软开关 DC-DC 变换器 ..... 丁 杰,赵世伟,尹华杰(20)
- 变频控制 LLC 变换器的新型参数设计方法 ..... 辛晓敏,荆 龙,赵宇明,吴学智,等(29)
- 基于混沌特性分析和 Volterra 滤波器的光伏出力预测 ..... 虞海彪,李 林,丁 明,刘 练,等(39)
- 考虑电缆宽频特性的光伏电站谐振机理及抑制 ..... 俞容江,马 炯,李家栓,全 宇(47)
- SVG 协同风电场的电网电压稳定控制策略研究 ..... 杨 蕾,周宗仁,郭 成,周 鑫,等(55)

### 新技术应用

- 低压开关柜母线温度场数值计算与分析 ..... 陆 彪,汤 凯,陈德敏,唐 咏,等(65)
- 一种新型多路独立调光 LED 驱动器 ..... 梁国壮,田涵雷,安在秋,张天城,等(72)

## CONTENTS

### Treatise and Report

- Dynamic combination model of modular multi-level converter for real-time simulation  
..... SHEN Zhuo-xuan, GUO Qi, JIANG Qi-rong, et al. ( 1 )
- Stability analysis of multi-terminal DC system with dual active bridge DC-DC converters  
..... LIU Yao, KONG Li, DENG Wei, et al. ( 10 )
- Soft switching DC-DC converter with low voltage stress and high voltage gain based on coupled inductor  
..... DING Jie, ZHAO Shi-wei, YIN Hua-jie ( 20 )
- A novel parameter design method for LLC converters based on variable frequency control  
..... XIN Xiao-min, JING Long, ZHAO Yu-ming, et al. ( 29 )
- Photovoltaic output prediction based on chaotic characteristic analysis and Volterra filter  
..... YU Hai-biao, LI Lin, DING Ming, et al. ( 39 )
- Resonance mechanism and suppression of photovoltaic plants considering wide-band frequency  
characteristic of cable ..... YU Rong-jiang, MA Jiong, LI Jia-shuan, et al. ( 47 )
- Study on voltage stability control strategy of power grid with SVG coordinated wind farm  
..... YANG Lei, ZHOU Zong-ren, GUO Cheng, et al. ( 55 )

### New Technology Application

- Thermal field calculation and analysis of low-voltage switchgear busbar  
..... LU Biao, TANG Kai, CHEN De-min, et al. ( 65 )
- A novel multiplex independent dimming LED driver  
..... LIANG Guo-zhuang, TIAN Han-lei, AN Zai-qiu, et al. ( 72 )