



东北电力大学学报

JOURNAL OF NORTHEAST ELECTRIC POWER UNIVERSITY



ISSN 1005-2992
CN22-1373/TM

2018 6
中国·吉林

东北电力大学学报

第三十八卷

第六期

二〇一八年十二月

东北电力大学学报

2018 年 12 月

第 38 卷第 6 期

(总第 144 期)

目 次

电力系统

- 扎鲁特直流对吉林省风电消纳影响研究..... 李春山,任普春,吴 姜 (1)
- $\pm 800\text{kV}$ 特高压分节式合成绝缘子均压环优化研究 单 明 (9)
- 基于柔性直流并网风电场的故障穿越策略述..... 李 丹,刘洪波,蔡婷婷 (13)
- 全寿命周期下考虑环境效益的集中式光伏发电成本-效益分析
..... 杨 茂,王少帅,李大勇,等 (21)
- 广域控制系统通信环节影响分析研究 时伯年,王玉亭,李 炜,等 (29)

能源·动力·机械

- 卧式矩形截面螺旋通道内气液两相流压力降特性研究..... 孙 博,吴家禹,周云龙 (35)
- 多级海水淡化装置闪蒸室内多孔板的设计研究 曹天义,宋亮福 (42)
- 太阳能丰富的寒冷地区三种清洁能源供暖的适用性分析..... 邱国栋,宇世鹏,聂丽君 (48)
- 基于多尺度灰色关联的火电机组 FCB 运行参数分析 李晓莉,王 迪 (55)
- 基于 Romax 的风电机组主轴轴承接触应力分析 付大鹏,褚加瑞 (62)

信息·计算机·自动化

- 基于正态云模型的果蝇优化算法 杜文军,孙 斌 (68)
- 系统中心本体的 workflow 建模 孙 成,刘海燕 (75)

数学·物理·化学

- 基于免疫遗传算法的自组织映射网络应用研究..... 李鹏松,刘 欣,李俊达 (82)
- 基于 CAR 模型的用电量需求预测研究 周小琳 (86)
- 指标偏好 DEA 问题的研究及其应用 张 杰,孙晓宇,杜康吉 (90)

CONTENTS

The Study Onthe Impact of Wind Power Consumption in Jilin Province from Zhalute DC	Li Chunshan ,Ren Puchun ,Wu Jiang (1)
Optimization of The Grading Ring of the $\pm 800\text{kV}$ UHV Segmented Synthetic Insulators	Shan Ming (9)
Fault Ride-through Strategies for the Connection of Large-scale Wind Farm based VSC-HVDC	Li Dan ,Liu Hongbo ,Cai Tingting (13)
Cost-benefit Analysis of Centralized Photovoltaic Power Generation Considering Environmental Benefit under the Life Cycle	Yang Mao ,Wang Shaoshuai ,Li Dayong ,et al (21)
Studyon Communication Network Effect on System Performance of Wide Area Control	Shi Bonian ,Wang Yuting ,Li Wei ,et al (29)
Research of Pressure Drop of Gas-Liquid Two Phase Flow within Spiral Channel with Horizontal Rectangular Section	Sun Bo ,Wu JiaYu ,Zhou Yunlong (35)
The Design of the Porous Plate in Flash Chamber of Multi-stage Sea Water Desalination Device	Cao Tianyi ,Song Liangfu (42)
Applicability Analysis of Three Kinds of Clean Energy Heating in the Solar-rich Cold Area	Qiu Guodong ,Yu Shipeng ,Nie Lijun (48)
Analysis of Operating Parameters of Thermal Power Plant during Fast Cut Back based on Grey Correlation of Multi-scale	Li Xiaoli ,Wang Di (55)
Analysis on Contact Stress for The Wind Turbines Main Shaft Bearing Based on Romax	Fu Dapeng ,Chu Jiarui (62)
The Fruit Fly Optimization Algorithm Based on Normal Cloud Model	Du Wenjun ,Sun Bin (68)
Workflow Modeling Based on System-centered Ontology	Sun Cheng ,Liu Haiyan (75)
Application Study of Self-Organizing Map Network Based on Immune Genetic Algorithm	Li Pengsong ,Liu Xin ,Li Junda (82)
Research on Electricity Demand Forecast Based on CAR Model	Zhou Xiaolin (86)
Research on the Construction and Effectiveness of Index Preference DEA Model	万方数据 Zhang Jie ,Sun Xiaoyu ,Du Kangji (90)