



www.EnergyChina.press ISSN 2095-8676
CN 44-1715/TK
CODEN NFNYJK

南方能源建设

SOUTHERN ENERGY CONSTRUCTION

2020年 第7卷 增刊2

增刊备案号: 广东省441715202002

南方能源建设
第七卷
增刊二
二〇二〇年十二月

SOUTHERN ENERGY CONSTRUCTION
Vol. 7
Supp. 2
Dec. 2020



主办单位: 南方电网数字传媒科技有限公司
中国能源建设集团广东省电力设计研究院有限公司



◆ 电网技术

- 基于两阶段聚类分析的用电需求响应潜力评估方法 雷翔胜, 伍子东, 董萍, 贾红舟 (1)
- 大型企业级云平台跨域资源调度与容灾模型 黄翔, 冯国聪, 宋云奎, 莫剑峰, 赵磊 (11)
- 基于微服务的电力信息系统架构研究与设计 陈酌灼, 张梦清, 茹春平 (18)
- 基于IAHP法的线损管理评价体系及验证 王延杰, 徐国智 (25)
- 10 kV 地下电缆出变电站后与配网衔接方案研究 黄满华 (33)
- 气体绝缘金属封闭输电线路GIL的抗震性能分析 黎玉婷 (40)
- 多扩头挖孔桩基础在输电线路中的应用 黎景辉 (45)
- 深圳抽水蓄能电站失步解列策略研究 程维杰, 庞学跃, 刘昊一 (50)
- 基于灰色关联TOPSIS法的抽水蓄能电站风险评价体系研究 王丙乾, 董剑敏, 关前锋, 韩倩 (56)

◆ 发电技术

- 风光储多能互补电源集控系统集控系统设计 蔡利敏, 何叶, 张霆均, 吴巧变, 刘国华 (62)
- 正则化声学层析成像温度分布的重建研究 楚攀, 黄长华, 白凤武, 陈澜 (68)
- 超超临界燃煤机组侧煤仓有限元分析及设计 陈兆雄, 马旻, 陶林惠, 熊雄 (75)
- 大型燃气-蒸汽联合循环单轴机组主厂房布置设计 张赢, 林燕, 梁展鹏, 王真 (82)
- 2×350 MW 超临界机组主厂房布置优化设计探讨 栗轩辉 (89)
- 某越南电厂自动电压控制的实现及安全控制策略 陈亮, 周伟, 杨源, 谭任深 (96)
- 轴封加热器U型水封运行影响因素的分析探讨 熊倩, 邓成刚, 孙张伟 (101)
- 给水泵变频改造液偶功能是否保留问题的探讨 张鹏飞, 权凯 (107)
- 燃煤电站除尘输灰一体化设计方案 潘灏 (113)
- 一种海水循环水排放泡沫物理消除方案 林添顺 (119)

◆ 市政交通

- 污泥卸储料车间建筑设计 杨慧琼, 贾斌, 张赢, 李恬恬 (123)
- 基于CFD对公路隧道纵向射流通风系统的研究 胡康, 邵雪 (131)

◆ 信息

- 广告目次 (39)

CONTENTS

◆ Power System Technology

- Method of Demand Response Potential Assessment Based on Two-stage Cluster Analysis LEI Xiangsheng, WU Zidong, DONG Ping, JIA Hongzhou(1)
- Research on Cross-domain Resource Scheduling and Disaster Tolerance Model for Large Enterprise Cloud Strategy HUANG Xiang, FENG Guocong, SONG Yunkui, MO Jianfeng, ZHAO Lei(11)
- Research and Design of Power Information System Architecture Based on Microservice CHEN Zhuozhuo, ZHANG Mengqing, RU Chunping(18)
- Line Loss Management Evaluation System and Verification Based on IAHP Method WANG Yanjie, XU Guozhi(25)
- Research on Connection Schemes for 10 kV Underground Cable Between Main Grid and Distribution Network HUANG Manhua(33)
- Seismic Performance Analysis of Gas Insulated Metal-enclosed Transmission Line LI Yuting(40)
- Application of Multiple Heads Pile Foundation in Transmission Line LI Jinghui(45)
- Study on Out-of-step Separation Strategy of Shenzhen Pumped Storage Power Station CHENG Weijie, PANG Xueyue, LIU Haoyi(50)
- Research on Risk Assessment System of Pumped Storage Power Station Using Grey Relational TOPSIS Method WANG Bingqian, DONG Jianmin, GUAN Qianfeng, HAN Qian(56)

◆ Generation Technology

- Design of Centralized Control System for Wind-light-battery Power Plants CAI Limin, HE Ye, ZHANG Tingjun, WU Qiaobian, LIU Guohua(62)
- Regularization Reconstruction Method for Temperature Distribution Measurement in Acoustic Tomography CHU Pan, HUANG Zhanghua, BAI Fengwu, CHEN Lan(68)
- Finite Element Analysis and Design of Side Bunker Structure of Advanced Ultra-supercritical Coal-fired Units CHEN Zhaoxiong, MA Min, TAO Linhui, XIONG Xiong(75)
- Main Power House Arrangement Design of Single-shaft Combined-cycle Power Plant ZHANG Ying, LIN Yan, LIANG Zhanpeng, WANG Zhen(82)
- Discussion on Optimization Design of 2×350 MW Supercritical Unit's Main Plant Arrangement LI Xuanhui(89)
- Practice and Security Constraint Strategy of AVC in Vietnam Power Plant CHEN Liang, ZHOU Wei, YANG Yuan, TAN Renshen(96)
- Analysis and Discussion on Influencing Factors of U-shaped Water Seal Operation of Gland Seal Heater XIONG Qian, DENG Chenggang, SUN Zhangwei(101)
- Feed Water Pump Frequency Conversion Transformation Function of Fluid Coupling the Discussion on Whether to Retain ZHANG Pengfei, QUAN Kai(107)
- Integration Design Scheme of Electrostatic Precipitator and Ash Conveying System in Coal-fired Power Station PAN Hao(113)
- A Physical Defoaming Scheme for Seawater Circulating Water Discharge LIN Tianshun(119)

◆ Municipal Transportation

- Sludge Unloading Workshop Design—Taking the Sludge Unloading and Storage Workshop of a Coal-fired Coupled Sludge Power Plant as an Example YANG Huiqiong, JIA Bin, ZHANG Ying, LI Tiantian(123)
- Research on Longitudinal Jet Ventilation System of Highway Tunnel Based on CFD HU Kang, SHAO Xue(131)

◆ Information

- Advertisement List (39)