

# 电力勘测设计

ELECTRIC POWER SURVEY & DESIGN

中国电力规划设计协会主办

建设行业优秀期刊  
电力行业优秀期刊

某750 kV 架空输电线路黄土湿陷性研究

输电线路工程综合数字勘测平台的设计与实现

800 MW 机组节能减排优化升级项目总体优化设计

富氧点火稳燃技术的应用

基于ANSYS 的换流变基础温度场及温度应力仿真分析

国内外光伏电站并网技术标准对比研究

核电常规岛设计项目管理平台研究开发

大型火电建设项目社会稳定风险评估

ISSN 1671-9913 CN11-4908/TK

ISSN 1671-9913



9 771671 991171

2017.3

# 目次

## 岩土工程·勘测

某 750 kV 架空输电线路黄土湿陷性研究·····	周 凯, 葛海明, 任治军	01
预制方桩对液化土层的挤密效果研究·····	孙 政, 曹 劲	06
地形图检测点高程精度统计软件开发·····	胡现辉, 胡茂林, 曹志杰	11
输电线路工程综合数字勘测平台的设计与实现·····	徐 辉, 程正逢, 胡吉伦, 陈 功	14

## 发电设计

800MW 机组节能减排优化升级项目总体优化设计·····	肖 野, 刘 钢, 王九崇	22
空冷机组设计背压选取·····	靳海军, 白音木仁	27
富氧点火稳燃技术的应用·····	吴东梅, 晏世刚, 陈海良	30
汽轮机高背压供热方案探讨·····	肖慧杰, 张雪松	35
燃机喷水模块高水质要求的解决方案·····	陈斌伟, 蔡冠萍	40

## 电网设计

智能变电站建设关键环节技术管控·····	崔 洋, 刘雪霞	44
基于 ANSYS 的换流变基础温度场及温度应力仿真分析·····	江 飞, 陈传新, 陈 寅	49
PTN 技术在河南电网中的应用·····	杨安坤, 李晓刚	53
柔性缆状石墨接地在输电线路工程中的应用·····	刘建伟, 赵枫, 郭志彬, 郝艳勇	58

## 新能源

生活垃圾焚烧发电项目电气主接线设计·····	杨建楠	62
国内外光伏电站并网技术标准对比研究·····	曹 哲, 赵思真, 魏小淤, 袁智强	65

## 项目管理

核电常规岛设计项目管理平台研究开发·····	王 旭	70
大型火电建设项目社会稳定风险评估·····	王宇新	74

## 经验交流

浅谈如何做好国有企业巡视整改工作·····	肖 虹, 王丽艳, 陈 雷	78
-----------------------	---------------	----

## 信息

我国首条大规模清洁能源特高压直流输电工程投产 (10)		
-----------------------------	--	--

# CONTENTS

## Geotechnical Engineering & Exploration

Study on Loess Collapsible of A 750 kV Overhead Transmission Line.....	ZHOU Kai, GE Hai-ming, REN Zhi-jun	01
Research on Compaction Effect of Prefabricating Square Pile in Liquidation Soil Layer.....	SUN Zheng, CAO Jin	06
Software Development of Detecting Point Elevation Accuracy Statistical of Topographic Map.....	HU Xian-hui, HU Mao-lin, CAO Zhi-jie	11
Design and Realization of Integrated Digital Survey Platform in Transmission Line Project .....	XYU Hui, CHENG Zheng-feng, HU Ji-lun, CHENG Gong	14

## Generation Design

Optimization Design of Energy Saving and Emission Reduction Optimization and Upgrading Project for 800 MW Unit .....	XIAO Ye, LIU Gang, WANG Jiu-chong	22
Back Pressure Selection of Air Cooling Unit.....	JIN Hai-jun, BAI Yin-mu-ren	27
Application of Oxygen Enrichment Ignition and Steady Burning Technology.....	WU Dong-mei, YAN Shi-gang, CHEN Hai-liang	30
Discussion on Heat Supply Scheme of High Back-pressure Steam Turbine.....	XIAO Hui-jie, ZHANG Xue-song	35
Solution Scheme for High Water Quality Requirement of Sprinkler Module for Gas Turbine.....	CHEN Bin-wei, CAI Guan-ping	40

## Electric Network Design

Control of Construction Key Links Technique of Intelligent Substations.....	CUI Yang, LIU Xue-xia	44
Simulation Analysis of Temperature Field and Temperature Stress for Converter Transformer Foundation Based on ANSYS .....	JIANG Fei, CHEN Chuan-xin, CHEN Yin	49
Application of PTN Technology in Henan Power Grid.....	YANG An-kun, LI Xiao-gang	53
Applications of Flexible Cable Graphite Earthing Material in Electric Transmission Line Engineering .....	LIU Jian-wei, ZHAO Feng, GUO Zhi-bin, HAO Yan-yong	58

## New Energy

Design of Main Electrical Connection for Waste Incineration Generates Electricity Plants.....	YANG Jian-nan	62
Comparison between Domestic and International Standards Grid Connection Techniques of PV Power Station .....	CAO Zhe, ZHAO Si-zhen, WEI Xiao-yu, YUAN Zhi-qiang	65

## Project Management

Research and Development of Management Platform for Nuclear Power Conventional Island Design Project .....	WANG Xyu	70
Risk Assessment of the Social Stability for Large Scale Thermal Power Construction Project.....	WANG Yu-xin	74

## Experience Exchangement

How to Do well Inspection Tour Rectifying Work for State-owned Enter Prise.....	XIAO Hong, WANG Li-yan, CHEN Lei	78
---	----------------------------------	----