

目 录

结构与力学

秦山核电厂二期扩建工程吊篮筒体焊接变形的分析及其控制

.....王庆田 许 斌 何大明 等 (001)

核电站核岛厂房复杂地基静力分析及处理方案.....李忠诚 张 扬 董占发 等 (005)

1000 MW 核电站 SEC 系统鼓型滤网抗震计算付 强 袁寿其 朱荣生 等 (010)

核设施结构单向模态反应组合新方法的应用研究.....柳胜华 夏祖讽 (015)

受汽封力作用的连续转子模型研究.....杨 懿 李 蔚 陈坚红 等 (020)

安全与控制

安全壳整体试验标准 ANSI/ANS-56.8-1994 在田湾核电厂的应用.....欧阳钦 褚英杰 (024)

内模控制方法在核电站蒸汽发生器水位系统的应用.....米克嵩 谷俊杰 徐培培 (029)

安全壳整体泄漏率计算方法的比较分析.....褚英杰 欧阳钦 (033)

5 MW 核供热反应堆超声波棒位测量系统模块式电源设计

.....李智慧 朱 江 苏升民 等 (038)

核电站运行事件人误因素交互作用分析.....张 力 邹衍华 黄卫刚 (041)

热工与水力

全厂断事故下封头熔池传热行为的研究.....周卫华 杨燕华 傅孝良 等 (047)

超临界水堆反应堆物理-热工水力耦合程序系统 MCATHAS 的开发

.....安 萍 姚 栋 (052)

板状燃料反应堆热工水力实时仿真程序研究与开发.....张志俭 李 磊 郭 贇 (056)

CO₂ 与 He 动力循环比较.....段承杰 王 捷 杨小勇 等 (064)

摇摆条件下矩形通道内层流传热特性的数学分析.....鄢炳火 于 雷 杨燕华 (070)

小通道振荡导致密度锁失效研究.....王升飞 阎昌琪 谷海峰 等 (075)

单面加热矩形窄缝通道流型可视化研究.....王俊峰 黄彦平 王艳林 (080)

核燃料及反应堆材料

C/C-SiC 复合材料的水润滑摩擦磨损特性.....高 雯 唐 睿 龙冲生 等 (085)

弥散型核燃料元件的 Eshelby 解析分析.....万远富 丁淑蓉 霍永忠 (089)

运行与维护

压水反应堆达临界的外推修正.....代前进 张佑翔 詹勇杰 等 (093)

秦山第二核电厂升/降负荷时硼化稀释量计算.....施卫华 潘泽飞 叶国栋 (096)

压水堆核电厂负荷跟踪系统设计与特性研究.....施 希 吴 萍 赵 洁 等 (102)

基于寿命评估与经济性分析确定核电厂触点开关的预防性维修周期

.....石 颀 (106)

基于分形理论的反应堆零件松动报警.....方力先 曾 复 曹衍龙 等 (113)

其他

台山核电厂 EPR 核电机组烟羽应急计划区评估.....罗海英 王建华 李文辉 等 (117)

AP1000 核电机组离堆废物处理方案探讨.....吕 军 (123)

新型消能结构在阳江核电厂防洪设计中的应用研究.....徐锡荣 廖泽球 (127)

总目次.....(131)

编委会主任：周永茂

编委会副主任：赵仁恺 彭士禄 黄国俊 管云龙 李玉

王大中 王乃彦 潘自强 赵 华 杨 岐

主 编：罗 琦

副 主 编：孙玉发 黄士鉴 卜永熙 崔广余 汪胜国

编辑部主任：左成元

编辑部副主任：尚作燕

编 辑：查刚菊 张明军 马 蓉 刘 君

陈世君 刘胜吾 黄可东

英文审校：张 琼

Analysis and Control of Welding Deformation in Qinshan Nuclear Power Phase II Extension Project	WANG Qing-tian XU Bin HE Da-ming et al (001)
Static Status and Treatment Solution Study on Sub-Gradewith Non-Homogeneous Constituents in Local Area of Nuclear Island Buildings	LI Zhong-cheng ZHANG Yang DONG Zhan-fa et al (005)
Seismic Analysis for SEC Drum-Shaped Filter of 1000 MW Nuclear Power Plant	FU Qiang YUAN Shou-qi ZHU Rong-sheng et al (010)
New Method of Individual Modal Response Combination in Nuclear Power Plants	LIU Sheng-hua XIA Zu-feng (015)
Study on Model of Continuous Rotor under Steam Seal Force	YANG Yi LI Wei CHEN Jian-hong et al (020)
Application of Containment Leakage Test Code ANSI/ANS-56.8-1994 in Tianwan Nuclear Power Station	OU YANG qin CHU Ying-jie (024)
Application of Internal Model Adaptive Control In Water System of Nuclear Power Plant Steam Generator	MI Ke-song GU Jun-jie XU Pei-pei (029)
Comparison and Analysis of Methods for Containment Leakage Rate Calculation	CHU Ying-jie OUYANG Qin (033)
Design of Modular Power Source for Ultrasonic Control Rods Position Measuring System of 5MW Nuclear Heating Reactor	LI Zhi-hui ZHU Jiang SU Sheng-min et al (038)
Interactive Analysis of Human Error Factors in NPP Operation Events	ZHANG Li ZOU YAN-Hua HUANG WEI-Gang (041)
Study on Heat Transfer Behavior of Molten Pool in Lower Head Introduced by SBO Severe Accident	ZHOU Wei-hua YANG Yan-hua FU Xiao-liang et al (047)
Development of MCATHAS System of Coupled Neutronics/ Thermal-Hydraulics in Supercritical Water Reactor	AN Ping YAO Dong (052)
Research and Development of Real-Time Thermal-Hydraulic Simulation Code for Plate Type Fuel Reactors	ZHANG Zhi-jian LI Lei GUO Yun (056)
Comparison of CO ₂ Power Cycle to He Cycle	DUAN Cheng-jie WANG Jie YANG Xiao-yong et al (064)
Mathematical Analysis of Heat Transfer Characteristics of Laminar Flow in a Rectangular Channel in Rolling Motion	YAN Bing-huo YU Lei YANG Yan-hua (070)
Research on Invalidation of Density Lock by Oscillation in Small Channels	WANG Sheng-fei YAN Chang-qi GU Hai-feng et al (075)
Visualized Experimental Observation on Flow Patterns in a Single-Side Heated Narrow Rectangular Channel	WANG Jun-feng HUANG Yan-ping (080)
Friction and Wear Behaviors of C/C-SiC under Water Lubrication	GAO Wen TANG Rui LONG Chong-sheng et al (085)
Analysis of Dispersion-Type Nuclear Fuel Using Eshelby's Solution	WAN Yuan-fu DING Shu-rong HUO Yong-zhong (089)
Extrapolation Modification of Physical Start-up of Reactors	DAI Qian-jin ZHANG Ji-ao ZHAN Yong-jie et al (093)
Forecast Dilution or Boration Value during Power Changing Process in Qinshan Project II	SHI Wei-huan PAN Ze-fei YE Guo-dong (096)
Research on Load-Following Characteristics of Pressurized Water Reactor Nuclear Power Plants	SHI Xi WU Ping ZHAO Jie et al (102)
Preventative Maintenance Cycle of Contact Switches for Nuclear Power Plants Based on Lifetime Assessment and Economic Analysis	SHI Jie (106)
Alarm Method for Loose Part of Nuclear Reactor Based on Fractal Theory	FANG Li-xian ZENG Fu YANG Jian-gxin et al (113)
Evaluation of Emergency Planning Zone for EPR Nuclear Power Unit in TSNPP	LUO Hai-ying WANG Jian-hua LI Wen-hui et al (117)
Discussion on Design Scheme of AP1000 's Radioactive Waste Treatment	LU Jun (123)
Research on Application of New Type of Dissipater in Flood Control Design at Yang River Nuclear Power Station	XU Xi-rong LIAO Ze-qiu (127)
Index	(131)