

反应堆工程

## 船用核动力装置净化系统运行安全分析研究

张杨伟; 蔡琦; 蔡章生

海军工程大学 船舶与动力学院, 湖北武汉430033

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**摘要** 基于船用核动力装置运行安全的需要, 阐述运行安全分析研究的特点和重要性。开发了核动力装置全范围运行分析软件, 并对一回路净化系统典型事故进行了运行分析, 给出了事故判别和处置的措施。所用运行分析软件和方法可满足船用核动力装置动态特性分析、事故处理规程制定和验证等工作的需要。

**关键词** [船用核动力](#) [运行安全分析](#) [净化系统](#) [事故处理](#)

分类号

## Research on Operational Safety Analysis of Marine Nuclear Power Plant Purification System

ZHANG Yang-wei ; CAI Qi ; CAI Zhang-sheng

College of Naval Architecture and Power, Naval University of Engineering, Wuhan 430033, China

**Abstract** Based on the requirement of operational safety of marine nuclear power, the characteristic and importance of research on operational safety analysis were expounded. Software for operational analysis on full scope of marine nuclear power plant was developed. With this software, the typical accidents of purification system of primary loop were analyzed on operational safety purpose, and steps of accident judgment and treatment were presented. The software and the method of the thesis can be applied to the dynamic property analysis of marine nuclear power, constitution and validation of accident treatment regulations, etc.

**Key words** [marine](#) [nuclear](#) [power](#) [operational](#) [safety](#) [analysis](#) [purification](#) [system](#) [accident](#) [treatment](#)

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