

反应堆工程

## 应用抽样统计方法计算DNBR限值

王煦嘉

上海核工程研究设计院, 上海200233

收稿日期 修回日期 网络版发布日期:

**摘要** 应用根据Wilks公式发展的抽样统计方法及VIPRE-W程序计算DNBR和出口含汽率的参数不确定性, 再结合模型与DNB关系式不确定性, 得到DNBR的设计限值为1.220。与RTDP方法得到的DNBR限值进行比较, 得出此方法能得到更多的DNBR裕度。

关键词 [Wilks公式](#) [抽样统计](#) [DNBR限值](#) [含汽率限值](#)

分类号

## DNBR Limit Calculation by Sampling Statistical Method

WANG Xu-jia

Shanghai Nuclear Engineering Research and Design Institute, Shanghai 200233, China

**Abstract** The parametric uncertainties of DNBR and exit quality were calculated using sampling statistical method based on Wilks formula and VIPRE-W code. Then the DNBR design limit and exit quality limit were got by combining with the uncertainties of models and DNB correlation. This method can gain the more DNBR margin than RTDP methodology which is developed by Westinghouse by comparison of these two methods.

**Key words** [Wilks formula](#) [sampling statistical method](#) [DNBR limit](#) [quality limit](#)

DOI

### 扩展功能

#### 本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(588KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

#### 服务与反馈

- ▶ [把本文推荐给朋友](#)

#### 相关信息

- ▶ [本刊中 包含“Wilks公式”的 相关文章](#)
- ▶ 本文作者相关文章
  - [王煦嘉](#)

通讯作者