

能源和环境工程

凝结式蒸汽干度测量方法与应用

李世武, 康芹

西北工业大学动力与能源学院

收稿日期 2006-11-29 修回日期 2007-7-25 网络版发布日期 2007-10-11 接受日期

摘要

依据能量守恒原理和凝结式蒸汽干度测量原理, 研制了凝结式蒸汽干度测量装置, 并对该装置进行了测量精度的定量分析, 分析结果显示其干度测量精度可达到98%, 并得出了提高该装置测量精度的内部测量部件的匹配模式, 同时制定了该装置的现场安装方案, 现场应用实验表明这一干度测量装置具有在线实时测量的实用性。

关键词 [蒸汽干度](#) [凝结式](#) [测量](#) [精度](#)

分类号

Measurement and application of condensed mode steam quality

LI Shiwu, KANG Qin

Abstract

According to energy conservation principle and the measurement principle of condensed mode to steam quality, a kind of measurement method of energy conservation condensed mode to steam quality is suggested, and the steam quality meter of energy conservation condensed mode is developed by the measurement method. Quantitative analysis for metrical precision of the meter is discussed, and its result shows that the metrical precision of the meter reaches 98%; the match model for enhancing metrical precision is suggested. An online installation project of the meter is constituted, the online experiment of the meter shows that this meter possesses the character of accuracy and practicality of online measurement.

Key words [steam quality](#) [condensed mode](#) [measurement](#) [precision](#)

DOI:

通讯作者 李世武 shiwuli@nwpu.edu.cn

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(649KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ 本刊中 [包含“蒸汽干度”的相关文章](#)
- ▶ 本文作者相关文章

- [李世武](#)
- [康芹](#)