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### 叶轮机叶片颤振系列转子的设计与流体诱发振动的实验研究

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### THE DESIGN OF THE SERIES OF BLADE FLUTTER ROTOR AND THE EXPERIMENTAL INVESTIGATION OF FLOW-INDUCED VIBRATION

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摘要

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**摘要** 本文介绍了叶轮机“叶片颤振系列转子”的设计情况和试验过程中出现的多种流体诱发振动现象。介绍了测试方法,并着重对叶片失速颤振现象进行了分析。

**关键词:** 压气机叶片 颤振 流体诱发振动

**Abstract:** In this paper, the design of the series of blade flutter rotor and several kinds of flow-induced vibration phenomena which occurred in the experiment are introduced. The methods of measurement which have been used in experiment is also presented and the stall flutter phenomena of blade are analyzed.

**Keywords:** compressor blades flutter flow-induced vibration

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