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双膜热流计的研究及其应用

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A DOUBLE FILM HEAT FLUX GAUGE AND ITS APPLICATION

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摘要

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摘要

本文对用于测量涡轮叶片和涡轮外环换热的高频双膜热流计进行了理论分析,并给出了对双膜热流计的校验方法,阐明了双膜热流计的设计及其应用。

关键词:

Abstract:

A double film heat flux gauge is investigated theoretically and developed to measure heat flux on turbine blades or rotor stationary tip casing in turbine test facilities of short duration. The analysis shows that the heat flux is a function of the temperature histories on both sides of the gauge. It is also a function of two combined parameters which consist of thermal properties and size of the gauge. A method for calibration of the gauge is given. The design criteria and applied techniques of the gauge are described in detail.

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