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文章名称: 跨音速轴流压缩机性能预测逐排模型研究-----孙娜等

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:: 文章简介 ::

摘要: 使用准一维逐排模型预测两台跨音速轴流压缩机的总性能, 并与试验数据对比。结果表明: 使用选定的参考攻角、损失和落后角模型的逐排模型能够有效地预测轴流压缩机的总性能, 计算结果与试验数据吻合较好。

关键词: 轴流式压缩机; 跨音速; 性能; 预测

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Research of the Blade-by-Blade Model for Predicting the Performance of Transonic Axial-flow Compressors

Abstract: In this paper, quasi-one-dimensional blade-by-blade model is used to predict the overall performance of two transonic axial-flow compressors and the computation result is compared with the test data. The result shows that the blade-by-blade model with the selected reference power-angle model, loss model and deviation angle model can effectively predict the overall performance of axial-flow compressor. And the computation result is consistent with the test data.

Key words: axial-flow compressor; transonic; performance; prediction

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