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叶轮机三维非定常流动数值模拟的研究

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NUMERICAL STUDY OF THE 3-D UNSTEADY FLOW IN TURBOMACHINERY STAGES

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摘要

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摘要 利用数值模拟手段对压气机内部非定常流场进行了初步研究,在数值模拟中引进了双重时间步方法。研究和讨论了物理时间步长及网格尺寸对计算结果的影响,给出了叶轮机通道中非定常流动的部分流动图画,并对非定常流场进行了初步的分析

关键词: 双重时间步方法 非定常流动 叶轮机机械

Abstract: The application of the implicit dual time step approach to the prediction of three dimensional unsteady flow through the stage of compressor is presented, and the effects of mesh density and real time step on the simulated results are investigated. The numerical results show that the effect of mesh density and real time step is larger, and there are complex unsteady flow structures in the blade passages.

Keywords: dual time step approach unsteady flow turbomachinery

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