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预测叶片失速颤振的一种半激盘法

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A SEMI -ACTUATOR DISK METHOD FOR PREDICTING THE BLADE STALL FLUTTER

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摘要

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摘要 本文利用一种半经验方法——变形半激盘法预测了轴流压气机（风扇）的亚/跨音速失速颤振。该模型的基本方法是：在变形激盘模型的基础上，发展简化的槽道一维非定常流动解。该模型改进了纯激盘模型中的一些不合理性。

关键词：

Abstract: One of the practical method for predicting the stall flutter of the blade of a turbomachinery is a semi-empirical one (deformed actuator disk method) . The reliability and simplicity of this method have been verified by the authors. Because the unsteady flow in cascade passage is neglected in the actuator disk method, there are some errors in computation. To improve this method, the authors developed a semi-actuator disk method which can be used for stall flutter prediction. The simplified unsteady solution of cascade passage improves the actuator disk method. An example of computation has shown that the accuracy of semi-actuator disk method is better than that of the actuator disk method.

Keywords:

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