



航空学报 » 1988, Vol. 9 » Issue (5) :218-224 DOI:

论文

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[<<](#) [<<](#) [前一篇](#) | [后一篇](#) [>>](#) [>>](#)

平板扰流片振动诱导涡运动研究

吕志咏, 黄政

STUDY OF VORTEX MOTIONS INDUCED BY OSCILLATING SPOILER ATTACHED TO FLAT PLATE

Lu Zhiyong, Huang Zheng

Beijing Institute of Aeronautics and Astronautics

摘要

参考文献

相关文章

Download: [PDF \(893KB\)](#) [HTML \(0KB\)](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 本文研究了平板上扰流片静止及振动时所诱导的分离涡的形成过程。当扰流片静止时,在扰流片后仅形成不规则的大尺度涡,一旦扰流片振动,就诱导出有固定频率的分离涡。扰流片振动频率,对分离涡的尺度、强弱、成对、合并过程有重要影响。文中还对的流片振幅大小的影响进行了讨论。

关键词:

Abstract: The forming and developing process of the separated vortex induced by a spoiler attached to a flat plate is presented. The spoiler is either stationary or oscillatory. When the spoiler is in the stationary state, a separated flow with larger-scale random vortices is formed behind the spoiler. As soon as the spoiler oscillates, induced vortices with definite frequencies appear downstream. The test results show that the scale, intensity, pairing and merging of the vortices depend, to a large extent, on the forced oscillation frequencies of the spoiler. The effects of the oscillation amplitude of the spoiler over the vortex is also discussed.

Keywords:

Received 1987-06-09;

引用本文:

吕志咏;黄政. 平板扰流片振动诱导涡运动研究[J]. 航空学报, 1988, 9(5): 218-224.

Lu Zhiyong; Huang Zheng. STUDY OF VORTEX MOTIONS INDUCED BY OSCILLATING SPOILER ATTACHED TO FLAT PLATE[J]. Acta Aeronautica et Astronautica Sinica, 1988, 9(5): 218-224.

Service

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [Email Alert](#)
- ▶ [RSS](#)

[作者相关文章](#)