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机翼带外挂颤振模型模态试验与参数识别

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MODAL TEST AND PARAMETER IDENTIFICATION OF A FLUTTER WING MODEL WITH EXTERNAL MISSILES

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摘要

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摘要 本文介绍了带外挂风洞颤振模型模态试验与参数识别方法。重点放在如何提高结果的可靠性和精度上。利用我们研制的识别程序,在通用计算机上识别了前九阶模态的全部模态参数。采用了四种数据检验手段以保证试验数据和识别结果的可靠性与精度。

关键词:

Abstract: Modal test and parameter identification of a wind tunnel flutter model simulating a wing with external missiles are presented in this paper. The emphasis is laid on enhancement of reliability and accuracy of the results. An identification program based on the complex mode theory has been developed, and the first nine order modal parameters are identified with the program run on a digital computer. Four data examining approaches are applied to guaranteeing the reliability and accuracy of test data and identified results.

Keywords:

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