



Код: 10791

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Industrial Tests of the SHM System Based on Modal Filtration

Дрезден, Германия, 2012 год

8 стр; формат: 23,5 x 16 см; библиографический список: 9 единиц

In the paper the developed SHM system based on modal filtration is described. The system consists of independent 16-channel measuring-diagnostic unit and modal analysis software which also provides the estimation of reciprocal modal vectors -modal filter coefficients. Both hardware and software are presented in detail and additionally their practical implementation to structural changes detection in technical objects. For these tests the elements of aviation structures were used: wing of the training jet fighter and blade of the propeller of a small agricultural aircraft.

Доклад. 6-я Европейская конференция по мониторингу технического состояния сооружений, 2012. Редакция Кристиана Боллера.

Ключевые слова:

Содержание

Abstract

Introduction

Description of developed SHM system

Tests of developed SHM system on airplane part

Final conclusion

Acknowledgments