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Damage Detection in the Aircraft Structure with the Use of Integrated Sensors-SYMOST Project

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This paper presents approach for the damage growth monitoring and early damage detection in the aircraft structure based on the statistical models elaborated in the AFIT. Taking into the consideration the previous experience of the AFIT from the System of Health Monitoring (SHM) of the helicopter main rotor blades the array of the piezoelectric transducers (PZT) will be deployed in the structure of the PZL-130 Orlik TC II Aircraft. In the article approach for the monitoring of the aircraft hot-spots is presented with special attention on developed models which enables statistical inference about the damage presence and its growth. The results of the data collected from the subcomponents tests with the model description, correlation with the NDI results as well as approach for the aircraft SHM system design is delivered.

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Ключевые слова:

Содержание

Abstract

Introduction

Structural health monitoring

Summary

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