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Application of Modern SHM Methods in Electric Power Industry

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In this paper an application of up-to-date Structural Health Monitoring systems based mainly on optical fibre sensors for various applications in power plants is presented. Real working solutions and ideas of the SHM systems were applied to fluid power boilers, installations of environmental protection (the so called desulphurisation systems) and main frames of construction (130m high). The measured values were compared with the design ones, as well as with the calculated values. It enabled evaluation of the inhomogeneous loads distribution and increased safety of the construction during its repair and operation.

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Ключевые слова:

Содержание

Abstract

Introduction

Structural monitoring of power boiler

Structural monitoring of flue gas desulphurisation installation

Structural monitoring of main frames

Summary