Smart structures and materials 2002.

SPIE - Center for Smart Structures & Materials

Smart Structures and Materials

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Smart materials and structures—a finite element approach—an addendum: a bibliography (1997

The optimization problem was formulated as a variable thickness sheet problem where the stiffness was maximized subject to a constraint on the free stoke. Conventional methods in health monitoring mainly focus on differences in the modal parameters such as natural frequency, but they require the existence of a large damage in order to detect the damage efficiently. The control scheme takes advantage of two adaptive feed forward controllers and an adaptive feedback controller.

Introduction

Its chemical composition and thermal behavior were determined using Fourier-transform infrared and thermal gravimetric analysis, respectively. As a result it is shown, that the Duffing type nonlinearities found in measurements can be described with this model.

Smart Structures and Materials 2002: Smart Structures and Integrated Systems

Before embedment, a length of the optical fibre was micro-braided using glass fibres to compare in situ strains monitored by the micro-braided and 'bare' fibre segments. The signal Short Time Fourier Transform STFT has been computed and several robust noise reduction algorithms, such as Wiener adaptive filtering, improved spectral subtraction filtering, and Singular Value Decomposition SVD -based filtering, have been applied. Aiming to diminish the effect of temperature on the piezoresistive property of SSCC, the SSCC responses to simultaneous temperature and loading excitations are then treated using a Bayesian blind source separation BSS method to reconstruct two independent sources.

Dynamic smart material and structural systems

Since the microstructure is defined parametrically, the density of each material can be controlled independently at each point. Various healing agents have been explored in the literature for their efficacy to recover mechanical and durability properties in cementitious materials.

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The configurational forces concept combined with the thermo-electro-mechanical extension of the J-integral are used to analyze the impact of the different factors on the crack driving energy. In this design the horn elements are folded which reduce the overall length of the resonator physical



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