

Adaptive Structures Dynamics And Control

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Adaptive Structures Dynamics And Control

An adaptive structure is a structure that actually senses a change in its environment and adapts to compensate for forces applied against it. These structures contain sensors, actuators and

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controllers that sense a force from the environment and adjust the shape, making the structure more rigid or more flexible depending upon the force.

Adaptive Structures: Dynamics and Control: Clark, Robert L ...

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Adaptive structures : dynamics and control (Book, 1998

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Adaptive Structures: Dynamics and Control - NASA/ADS

Structural Dynamics and Adaptive Structures. Aerospace vehicles deform during flight. To assess structural performance,

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structural dynamicists analyze and measure the response of such vehicles to dynamic loading. Such loading may take the form of varying external and internal forces and pressures, as well as imposed motions. In some cases, these loads (in addition to the intrinsic inertia, damping, and stiffness loads) may depend on the response, as is the case for aerodynamic loads and ...

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Adaptive structural control using dynamic hyperspace Abstract
The design of closed-loop structural control systems necessitates a certain level of robustness to cope with system uncertainties.

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Neurocontrollers, a type of adaptive control system, have been proposed to cope with those uncertainties.

Adaptive structural control using dynamic hyperspace

Using mathematical stability theory and adaptive control strategy, a simple stable integral sliding mode control is proposed. The controller will be shown to be effective against actuator saturation as well as unknown characteristics and system uncertainties.

Adaptive control realization for canonic Caputo fractional

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The processes discussed lead to a new method of adaptively returning structures through the introduction of known loads, with particular reference to helicopter response suppression. In many applications it is desirable to reduce the response of a structure without the use of damping.

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Adaptive Passive Control of Dynamic Response Through

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The analysis and design of adaptive structures requires a highly multi-disciplinary approach which includes elements of structures, materials, dynamics, control, design and inspiration taken from biological systems. Development of adaptive structures has been taking place in a wide range of industrial ...

Adaptive Structures | Wiley Online Books

The performance requirements of advanced space systems of the future have motivated a new approach to structural design. This paper surveys the field of adaptive structures and proposes a general framework for categorizing the various approaches being pursued. Examples are described in each category to place the work in relative perspective and to describe the similarities and differences ...

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Adaptive Structures - B.K. Wada, J.L. Fanson, E.F. Crawley

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control algorithm. Combining the kinetics model and stochastic model of a 2-DOF robot, an adaptive position control with Kalman Filtering (KF) is developed to provide rapid convergent state estimation of the load on the robotic end-effector by solving the inverse dynamics. Validating the robustness and effectiveness of the proposed algorithm

Adaptive Torque and Position Control for a Legged Robot

...

Instead, structures could be adaptive to counteract the effect of external loads. The state of the structural system (e.g. displacements and internal forces) is monitored through sensors (e.g. strain gauges, optical tracking). Closed-loop control drives the actuators in order to keep the structure within required

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conditions.

Design and control of adaptive civil structures

Theory of Adaptive Structures provides the basic theory for controlling adaptive structures in static and dynamic environments. It synthesizes well-established theories on modern control as well as statics and dynamics of deformable bodies.

Theory of Adaptive Structures | Taylor & Francis Group

In this paper, a robust adaptive fuzzy-neural control scheme for nonlinear dynamical systems is proposed to attenuate the effects caused by unmodeled dynamics, disturbance, and modeling errors.

Robust adaptive fuzzy-neural control of nonlinear ...

Structural Mechanics, Dynamics and Control, Smart

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Infrastructure, Intelligent Material Applications, Structure Acoustic Interactions, Power/Energy Harvesting, Visual Suppression. My research focuses on the general areas of structural dynamics, vibration, control, testing, adaptive structures and smart materials. Structural Dynamics.

Virginia Tech Mechanical Engineering | Pablo A. Tarazaga

Adaptive structures have the ability to adapt, evolve or change their properties or behaviour in response to the environment around them. The analysis and design of adaptive structures requires a highly multi-disciplinary approach which includes elements of structures, materials, dynamics, control, design and inspiration taken from biological systems.

Adaptive Structures: Engineering Applications | Aeronautic ...

An adaptive inverse is employed for canceling the effect of an

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unknown actuator nonlinearity, and a linear feedback control law is used for controlling the dynamics of a known linear or smooth nonlinear part following the actuator nonlinearity.

Adaptive Control Systems | ScienceDirect

The paper introduces a new conceptual framework for multistructural planning and operations of adaptive supply chains with structure dynamics considerations. We elaborate a vision of adaptive supply chain management (A-SCM), a new dynamic model and tools for the planning and control of adaptive supply chains.

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