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Using Steady CFD with Unsteady Aerodynamic Aerodynamic Damping and Buffet Response of an Aeroelastic Model of the Saturn I Block II Launch Vehicle

Fluid dynamics of unsteady separated flow. part i

Abstract. Many aerospace vehicles, launch vehicles in particular, are designed with little consideration to aerodynamics. As a consequence, the aerodynamic

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Statistical analysis of wing/fin buffeting

Aerodynamic damping derived from the NASTRAN flutter model was added to the structural damping to give a total In the prediction of the buffet response,

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which deals with the static or steady response of an elastic body to a and the negative damping of the aerodynamic force. The methods for buffet detection

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Control of a nonlinear dynamic structural model of

response caused by buffet loads. Several ight conditions that differ in severity were tested. The aeroservoelastic aerodynamic damping factor

Patent us5549260 - active control device for

By active feedback control using a buffet response signal for aircraft tail buffet 11 so as to produce an aerodynamic damping force on

Dynamic response of cfrp plates under the action

Dynamic Response of CFRP Plates under the buffet, etc. There has been, in particular, damping at joints. friction. aerodynamic damping and acoustic radiation.

Buffet response and aerodynamic damping

ad0820218. title : buffet response and aerodynamic damping characteristics of aeroelastically scaled titan iii/mol configurations at transonic speeds.

Some aspects of aircraft dynamic loads due to flow

Variations in structural damping due to response amplitude or wing lift are undesirable (both the buffet excitation and the aerodynamic damping would have to

Experimental research on an active sting damper in

This paper details the development and experimental evaluation of an active damping system using response under exciter stimulation aerodynamic damping of the

A i aa-9 -048 6

A I AA-9 2 -048 6 Separation-induced response from the buffet-type to the self-separation-induced effect on the aerodynamic damping had not a significant

Vertical tail buffeting alleviation using

estimates of the aerodynamic damping showed that aerodynamic Dima, C., and Ravindra, K., Reduction of Vertical Tail Buffet Response Using Active

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to generate aerodynamic damping that reduces buffet-induced oscillations. Results of the Actively Controlled Response of Buffet-Affected Tails (ACROBAT)," NASA

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Structures, Structural Dynamics, and Materials and Application for the X-33 launch vehicle finite element model. Helicopter aeroelastic response and stability

Predictions of f-111 tact aircraft buffet response

This report presents a method for predicting buffet response from pressure Damping is obtained for data/1807626645#Topic/aerodynamics> ;

Reduction of vertical tail buffet response using

Reduction of Vertical Tail Buffet Response as part of the Actively Controlled Response Of Buffet induced considerable damping to the

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