

Analyzing Vibration With Acoustic Structural Coupling

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Analyzing Vibration with Acoustic-Structural Coupling FSI techniques using acoustic elements efficiently compute natural frequencies, harmonic response and other vibration effects in structures containing fluids. By Marold Moosrainer, Head of Consulting, CADFEM GmbH, Munich, Germany

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Vibration and structural acoustics analysis has become an essential requirement for high-quality structural and mechanical design in order to assure acoustic comfort and the integrity, reliability and fail-safe behavior of structures and machines.

~~Analyzing Vibration With Acoustic Structural Coupling~~

The present paper discusses impedance and mobility approach integrated with finite element method (FEM) for free vibration analysis of structural-acoustic coupled systems for irregular geometry. In this method, coupled natural frequencies of any irregular geometry with flexible surfaces with different boundary conditions can be estimated. The proposed hybrid method helps to understand the ...

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Natural frequencies and modes of two- and three-dimensional cavities bounded by elastic structures are obtained. It is shown that the free vibration problems of the structural-acoustic system of two- and three-dimensions can be easily formulated and solved by utilizing the proposed method. General characteristics of the dynamic coupling between the structure and the acoustic cavity are ...

~~Analysis of Free Vibration of Structural-Acoustic Coupled ...~~

This study addresses the free vibration analysis of nonlinear structural-acoustic system with non-rigid boundaries. In practice, the boundaries of a panel cavity system are usually imperfectly rigid. Therefore, this study examines the effect of cavity boundary on the resonant frequencies of the nonlinear system.

~~Free Vibration Analysis of Nonlinear Structural-Acoustic ...~~

Structural Vibration. Structural vibration is a sub category of structural dynamics. It is a type of structural analysis which covers the behaviour of a structure subjected to dynamic loading. Dynamic loads include people, wind, waves, traffic, earthquakes, and blasts. Any structure can be subjected to dynamic loading.

~~Structural Vibration - Scenic Acoustic~~

This is used to solve for sound pressure levels experienced by the occupants. For exterior acoustics, the solution provides a structural vibration coupling with exterior acoustics simulation techniques. This capability is used to analyze the sound field radiated by a vibrating structure in a single coupled vibro-acoustic analysis.

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~~Acoustics, Noise & Vibration | Thornton Tomasetti~~

An analytical method is developed for predicting vehicle interior noise and identifying noise sources. In this method, the finite element models representing the vehicle structure and its enclosed acoustic cavity are coupled mathematically. A modal formulation is employed to solve for the interior acoustic response, and an analysis is developed to identify the structural and acoustic modal participation as well as the boundary panel participation in producing the response.

~~A Coupled Structural Acoustic Finite Element Model for ...~~

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~~Acoustic Analysis - AltaSim Technologies, LLC~~

Statistical energy analysis (SEA) is a method for predicting the transmission of sound and vibration through complex structural acoustic systems. The method is particularly well suited for quick system level response predictions at the early design stage of a product, and for predicting responses at higher frequencies.

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