

# Modal Frequency Response Analysis using MSC.Nastran

## 1. Theoretical background for calculations in Nastran

In this section, a very brief description is given of how the calculation of frequency response functions works with Nastran's modal frequency response analysis. Therefore, the most important equations are given in a chronological order as applied by the program.

After input of an bulk data file (\*.bdf), Nastran assembles the system's mass and stiffness matrices, leading to a set of differential equations, displayed by eq. (1), already transformed in the frequency domain (damping is neglected at first).

$$\mathbf{M} \ddot{\mathbf{x}} + \mathbf{K} \mathbf{x} = \mathbf{f}(\omega) \quad (1)$$

Secondly, Nastran solves the characteristic equations (eq. (2)) for eigenvalues and computes the corresponding eigenmodes.

$$\det(\mathbf{K} - \omega^2 \mathbf{M}) = 0 \quad (2)$$

With the separation approach in eq. (3), a modal transformation[1,3] is performed, which diagonalizes the system from eq. (1), using the orthogonality properties of the eigenvectors in the modal matrix  $\Psi$ , consisting of the calculated eigenvectors.

$$\begin{aligned} \mathbf{x} &= \Psi \mathbf{q}(\omega) \\ \text{with } \Psi &= [\psi_1, \psi_2, \psi_3, \dots, \psi_N] \end{aligned} \quad (3)$$

Hereby the system, consisting of N degrees of freedom, is decoupled, leading to a system of N single-mass oscillators, with each oscillator representing an eigenmode of the system in general coordinates  $q_i$  (eq. (4)).

$$m_i \ddot{q}_i(\omega) + k_i q_i(\omega) = p_i(\omega) \quad (4)$$

Here,  $m_i$  is the modal mass,  $k_i$  the modal stiffness, and  $p_i = \psi_i^T \cdot \mathbf{f}$  the modal force. With the eigenfrequencies  $\omega_i^2 = k_i / m_i$ , eq. (4) can be transformed to eq. (5). Furthermore, damping can be introduced by a modal damping ratio  $\zeta_i$  (eq. (6), [1]).

$$\ddot{q}_i(\omega) + \omega_i^2 q_i(\omega) = \frac{p_i(\omega)}{m_i} \quad (5)$$

$$\ddot{q}_i(\omega) + 2\zeta_i \omega \dot{q}_i(\omega) + \omega_i^2 q_i(\omega) = \frac{p_i(\omega)}{m_i} \quad (6)$$

The solution of this differential equation is well known and given by eq. (7).

$$q_i(\omega) = \frac{1}{\omega_i^2 - \Omega_i^2 + i2\zeta_i \omega \Omega_i} \cdot \frac{p_i(\omega)}{m_i} \quad (7)$$

Then, the solution for the system ist a linear combination of the solutions for all oscillators (eq. (8)).

# Modal Frequency Response Analysis Using Msc Nastran

**Jiyuan Zhang**



## **Modal Frequency Response Analysis Using Msc Nastran:**

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**Nonlinear Random Response Prediction Using MSC/NASTRAN** Jay Howard Robinson,1993 Proceedings of the 12th International Modal Analysis Conference Dominick J. DeMichele,Society for Experimental Mechanics (U.S.),1994 **A Finite Element Procedure for Calculating Fluid-structure Interaction Using MSC/NASTRAN** ,1990 **Proceedings of the 17th International Modal Analysis Conference** Alfred L. Wicks,1999 *36th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference and AIAA/ASME Adaptive Structures Forum* ,1995

**MSC/NASTRAN Verification Problem Manual** MacNeal-Schwendler Corporation,1986 Proceedings of NOISE-CON ... ,1996 **Scientific and Technical Aerospace Reports** ,1984-04 **A Collection of Technical Papers** ,1988 **Broadband Transmission Loss Due to Reverberant Excitation** ,1999 *High Performance Structures and Materials II* C. A. Brebbia,Willy Patrick Wilde,2004 A range of topics relating to advanced types of structures particularly those based on new concepts or new types of materials Originally presented at the Second International Conference on High Performance Structures and Materials the papers contain detailed developments in design optimization manufacturing and experimentation *Annual Index/abstracts of SAE Technical Papers* ,2005 *AIAA Journal* American Institute of Aeronautics and Astronautics,2007 **Proceedings of the ASME Noise Control and Acoustics Division** ,2003

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