

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 Ψ , 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 ζ_i (eq. (6), [1]).

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

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

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

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

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

Daniela Niemeyer



Modal Frequency Response Analysis Using Msc Nastran:

Using MSC/NASTRAN Arturo O. Cifuentes, 2012-12-06 The idea of writing this book came up one night while having dinner with Ventura at the Crocodile Cafe in Pasadena This was really a joint project that could have turned into a nightmare without her support encouragement and expertise in personal computers For all these things and for tolerating my sometimes single minded attention I am very grateful to her I am also very much indebted to six good friends Paul Burrige Mladen Chargin Gary Dilley Carl Hennrich Hector Jensen and Mark Miller who read the entire manuscript of this book and made many useful suggestions I also want to thank Burt Alperson for his guidance and advice during the preparation of this book Finally I thank the Department of Civil Engineering of the University of Southern California for the support provided during the course of this project and my students of all these years for asking tough questions

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Schleyer, C.A. Brebbia, 2016-06-06 Infrastructure Risk Assessment Management contains selected papers presented at both the 10th International Conference on Computer Simulation in Risk Analysis and Hazard Mitigation and the 14th International Conference on Structures under Shock and Impact organized by the Wessex Institute The papers cover a variety of topics including impact and blast loading response of buildings and other structures to blast and their dynamic behaviour These are all areas of active research and general interest focused on the survivability of physical facilities and the protection of people It contains a series of research contributions essential to deepen the knowledge of how structures and materials behave

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