

MSC Nastran/Seismic Analysis

Assessing Structural Response Due to Earthquake Events



The Nastran Seismic Toolkit is Dedicated to FEM Advanced Simulation of Seismic Phenomena Effects on Structures

MSC Software offers simulation software and services for Computer Aided Engineering (CAE) in the field of virtual product development. Using MSC solutions, companies are able to reduce time consuming and costly physical testing by creating and testing 'virtual prototypes' that can be quickly evaluated for performance in any environment.

Why an Advanced Seismic Toolkit?

Analysis of structural response to earthquake events is more important today than it has ever been. In the strive towards quake-proof structures, the Nastran Seismic Toolkit offers a comprehensive arsenal to assist you in this endeavour.

Technical Content

Based on the long standing capability of Response Spectrum analysis, the Seismic Toolkit extends the scope of this type of analysis to include capabilities such as the CQC method, Newmark combinations, Der Kiureghian and Roseblueth coefficients, missing mass, specification of the ZPA frequency, combination with static cases with or without preload, spectral output and post processing support in both Patran and SimXpert.

A specific Graphical User Interface has been realized to set up Nastran inputs with all capabilities and options available through a simple and quick process.

Added Value

The Nastran Seismic Toolkit offers straight forward specification of the combined static and dynamic environments to which earthquake resistant structures are subjected. With account of current industry standard methodology, the easy specification of the various combination techniques, and their immediate availability in the post processing environment, improves efficiency by orders of magnitude.

Technical Assistance and Expertise

MSC Software experts are committed to support companies in such advanced simulation usage and tools through technical assistance and dedicated on demand training sessions. MSC Software is ready to help you take advantage of this capability in ramping up the expertise of your company's technical team towards success.



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