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frf = modalfrf(x,y,fs,window) estimates a matrix of frequency response functions, frf, from the excitation signals, x, and the response signals, y, all sampled at a rate fs.The output, frf, is an H 1 estimate computed using Welch's method with window to window the signals. x and y must have the same number of rows. If x or y is a matrix, each column represents a signal.

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WORKSHOP 6 Modal Frequency Response Analysis MSC/NASTRAN102 Exercise Workbook 6-3 Model Description: Using the modal method, determine the frequency response of the flat rectangular plate, created in Workshop 1, excited by a 0.1 psi pressure load over the total surface of the plate and a 1.0 lb. force at a corner of the tip lagging 45o.

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A modal analysis uses the frequency response functions measured at multiple points on the structure to determine the shape of the structure as it deforms at a particular resonance. The triaxial acceleration (or velocity, displacement, strain, etc) is measured at each point on the structure per unit force applied to the structure.

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