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frequencies for vibration in the y direction, x direction and axial vibration are obtained as 5570 rad/s, 1403 rad/s and 11018 rad/s as against the closed form solution of 5642 rad/s, 1414 rad/s and 9395 rad/s.

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Figure 1: Modal Analysis Feeding PSD Analysis . The modal analysis can be performed as usual. However, in the Output Controls of the Modal analysis, the option to output nodal forces must be set to YES (Figure 2), thereby populating the results files with the necessary data to later extract beam forces from the PSD analysis.

Retrieve Beam Reaction Forces In ANSYS® Random Vibration ...

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