Modally Enhanced Dynamic Absorber - MEDA

De-tuning substructure is "designed" to have the same target modes as the main structure

MEDA substructure is "optimized" using main structure modes as "targets" for optimization procedures

Tuned absorbers are used for the “detuning” of troublesome modes. The Modally Enhanced Dynamic Absorber (MEDA) utilizes detuning of multiple modes simultaneously through the design of an appendage structure that is optimized to address multiple modes simultaneously.