

## Documents

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**Enhancing dynamic performance of lightweight superstructures using supplementary damping**

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**Abstract**

Ensuring that lightweight superstructures perform satisfactorily in terms of serviceability and safety requires close attention to how they respond to dynamic loadings in undamaged or damaged states. This reflects that their modal characteristics can cause acceleration levels under wind, seismic and other loadings that impinge on functionality, or propagate damage in extreme circumstances. Discussion here addresses application of supplementary damping technologies as cost effective ways of ensuring lightweight superstructures have desirable dynamic response characteristics in new or retrofit construction situations.

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