

Computational Stochastic Acoustics

The dynamical response of engineered systems in the medium-frequency range is significantly more sensitive to perturbations in the underlying predictive model and supporting experimental evidence. The ability to develop meaningful measures of accuracy in the predicted behavior of such systems is therefore paramount for enhancing the value of these predictions. This session will include papers that deal with the issue of structural acoustics in the presence of uncertainty. Issues of radiation, scattering, and coupling with a surrounding fluid or internal attachments will be considered. Abstracts presenting computational methodologies, experimental evidence indicating the relevance of uncertainty modeling, as well as parametric computational evidence to that same effect, will be considered.

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