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A polynomial expansion approach for response analysis of periodical composite structural-acoustic problems with multiscale mixed aleatory and epistemic uncertainties

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Highlights (for review)

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> Multi-scale mixed aleatory and epistemic uncertainties in the composite structural-acoustic system are considered.

> An evidence-theory-based polynomial expansion method (EPEM) is developed to analyze the periodical composite structural-acoustic system with multi-scale mixed aleatory and epistemic uncertainties.

> Numerical examples are presented to demonstrate the effectiveness and efficiency of the proposed method.

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