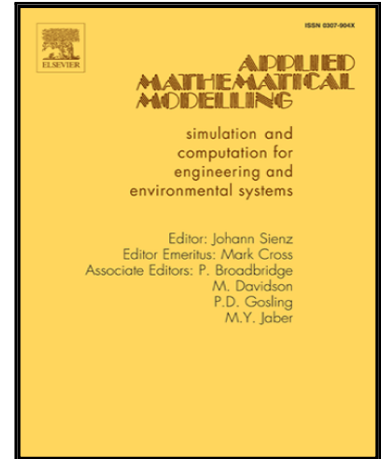


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A new global nonreflecting boundary condition with diagonal coefficient matrices for analysis of unbounded media

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Highlights

- A new semi-analytical global nonreflecting boundary condition (BC).
- The proposed BC is employed at medium-structure interface.
- The coefficient matrices of BC and dynamic-stiffness matrix are diagonal.
- Only the boundary of the problem's domain is discretized.
- The proposed method leads to diagonal differential equations in the frequency domain.

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