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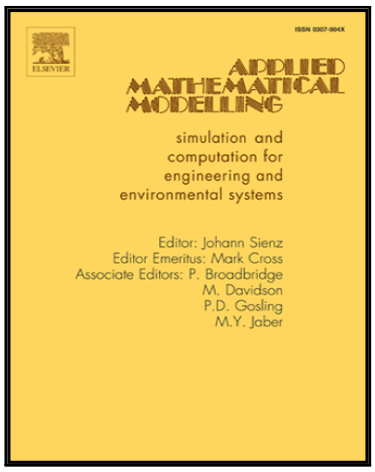

A new analytical approach for the modeling of sound propagation in a stratified medium

Reza Keshavarz , Abdolreza Ohadi

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Highlights

- An analytical method is proposed to describe sound propagation in stratified mediums.
- The proposed method is easy to implement.
- Both the acoustical indicators and field variables are found analytically.
- The proposed method has the advantages of the other methods in a single one.
- The proposed method is verified by analyzing three different examples.

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