

## Accepted Manuscript

Analytic solutions for unsteady flows over a superhydrophobic surface

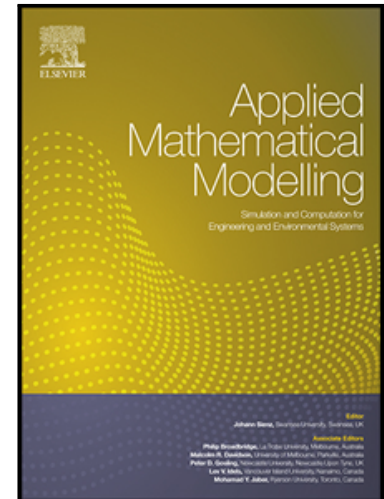
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**Highlights**

- Unsteady analytic solutions for flows over a superhydrophobic surface are derived
- Regular rectilinear riblets in the streamwise directions are considered
- A Robin condition with non-constant coefficient is imposed in a general manner
- Comparisons with a numerical solver are used as cross validation

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