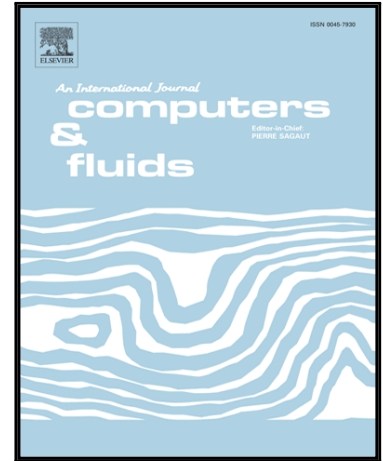


## Accepted Manuscript

Influence of non-uniform mean flow on acoustic scattering from complex geometries

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PII: S0045-7930(17)30448-6  
DOI: [10.1016/j.compfluid.2017.12.014](https://doi.org/10.1016/j.compfluid.2017.12.014)  
Reference: CAF 3679



To appear in: *Computers and Fluids*

Received date: 22 May 2017  
Revised date: 3 December 2017  
Accepted date: 21 December 2017

Please cite this article as: Long Cheng , Lin Du , Xiaoyu Wang , Long Wu , Xiaodong Jing , Xiaofeng Sun , Influence of non-uniform mean flow on acoustic scattering from complex geometries, *Computers and Fluids* (2017), doi: [10.1016/j.compfluid.2017.12.014](https://doi.org/10.1016/j.compfluid.2017.12.014)

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**Highlights**

- An immersed boundary method is presented for sound scattering in non-uniform flow.
- Convergence analysis is performed for the method in a real viscous mean flow.
- The core wake region is proved to be of vital importance for sound directivity.

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