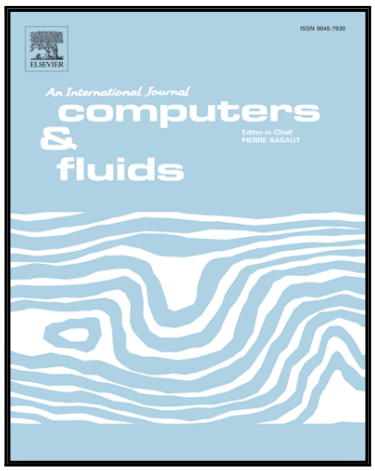

Fluid structure interaction with curved space lattice Boltzmann

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Highlights (for review)

- Fluid structure interaction simulations with lattice Boltzmann (LBM) method coupled to a Finite Element Method (FEM).
- Novel, 2nd-order curved space LBM with D3Q19 lattice vectors.
- LBM works independently in curved space coordinates on a standard lattice.
- FEM shell utilizes a continuum description of thin elastic objects FEM with inherent C2 differentiability.