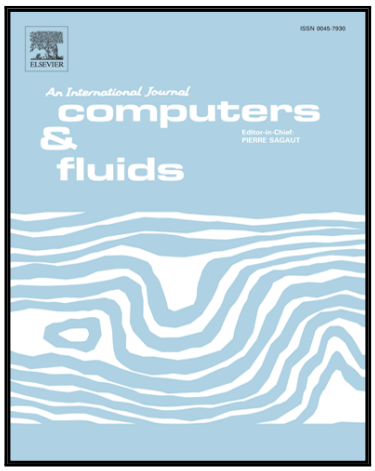

Lattice Boltzmann simulation of TiO_2-water nanofluid in a curved boundary domain at high Rayleigh numbers

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Highlights:

- Simulation of high Rayleigh number natural convection.
- Two-component simulation of nanofluids in natural convection.
- Including nanoparticle size effect on the Nusselt number.
- Studying the effect of boundary conditions on the nanoparticle.