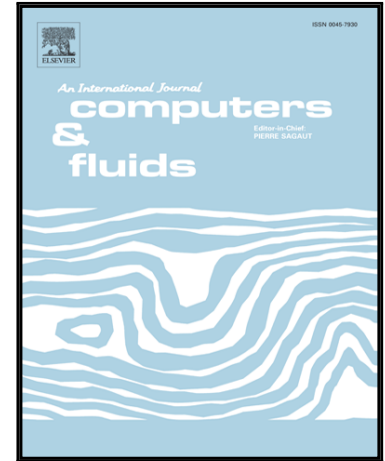


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A global particular solution meshless approach for the four-sided lid-driven cavity flow problem in the presence of magnetic fields.

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Highlights

- It is shown that the novel meshless MASPS is capable of simulating complex flow fields under magnetic forces.
- Simultaneous steady state solutions in the 4S-LDC flow are obtained by the novel meshless method, with and without magnetic fields.
- The influence of the magnetic field on the instabilities of the 4S-LDC flow is studied with the MASPS.

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