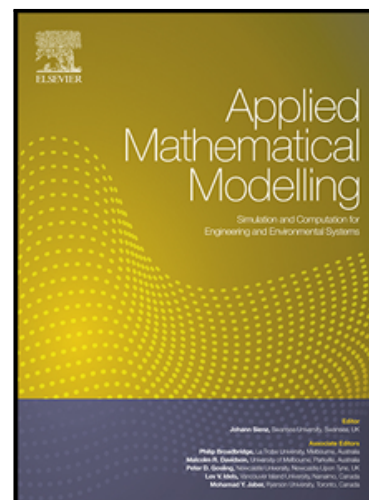


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Highlights

- We investigate the flow of a fluid defined by a rate-type implicit constitutive equation.
- The model takes into account viscoelastic effects.
- We study the channel flow with non-flat walls
- The pressure satisfies an integro-differential equation.
- We plot the pressure and velocity distribution for different wall profiles.

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