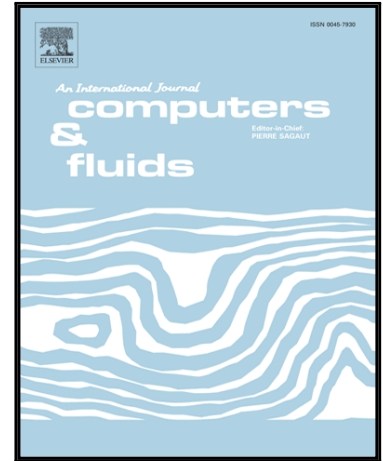


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Numerical simulation of a porous medium-type atherosclerosis initiation model

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Highlights

- The problem describes first stages of atherosclerosis development.
- The mathematical model includes nonlinear diffusion of porous medium-type.
- We propose a new model, variant of the original one, adding nonlinear diffusion.
- Numerical solution of a reaction-diffusion model by high order ADER-WENO schemes.
- Theoretical properties of the solution are stated and proved.

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