

Shock Capturing Methods Free Surface Shallow Flows

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volume method, based on Riemann problem 's resolution using shock capturing schemes. Application tests for steady and unsteady flows confirm the capacity of these schemes to maintain stability and precision. KEYWORDS: Free surface flow simulation, Shallow water equations, Saint-Venant, Finite volume, Riemann problem, Godunov 's scheme, Limiters.

[Application of Shock Capturing Method for Free Surface ...](#)

Some of the well-known classical shock-capturing methods include the MacCormack method (uses a discretization scheme for the numerical solution of hyperbolic partial differential equations), Lax – Wendroff method (based on finite differences, uses a numerical method for the solution of hyperbolic partial differential equations), and Beam – Warming method.

[Shock-capturing method](#) - Wikipedia

I have been reading very carefully the book by E. Toro on shock capturing methods for shallow water flows and cannot understand why it uses the criteria $h^* > h_L$ (or $h^* > h_R$) to define the situation when a shock will occur. Shouldn't it be $\text{labmda}^* > \text{lambda}_L$ [where lambda is the eigenvalue of the Jacobian matrix, e.g. $u + \sqrt{q(h)}$].

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In this paper, NHWAVE, a shock-capturing non-hydrostatic model for nonlinear free-surface wave processes is presented. The governing equations are solved in a coordinate system and discretized by a combined finite volume and finite difference scheme with a Godunov-type method. In order to apply Godunov-type scheme, the velocities are collocated at the cell center.

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