

Shock Capturing Methods Free Surface Shallow Flows

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The first of its kind in the field, this title examines the use of modern, shock-capturing finite volume numerical methods, in the solution of partial differential equations associated with free-surface flows, which satisfy the shallow-water type assumption (including shallow water flows, dense gases and mixtures of materials as special samples).

Shock-Capturing Methods for Free-Surface: Amazon.co.uk ...

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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 $\lambda^* > \lambda_L$ [where λ is the eigenvalue of the Jacobian matrix, e.g. $u + \sqrt{gh}$].

Shock-capturing methods for free-surface shallow water ...

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Shock-capturing methods for free-surface shallow flows ...

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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 η 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.

Shock-capturing non-hydrostatic model for fully dispersive ...

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