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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  $h^* > hL$  (or  $h^* > hR$ ) to define the situation when a shock will occur. Shouldn't it

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

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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.

Shock-capturing non-hydrostatic model for fully dispersive

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