

**Leonard, B. P.**

**Note on the von Neumann stability of explicit one-dimensional advection schemes.** (English)

Zbl 0848.76061

Comput. Methods Appl. Mech. Eng. 118, No. 1-2, 29-46 (1994).

A number of well-known explicit advection schemes are considered and extended to large time step  $\Delta t$ . The analysis also includes a simple interpretation of (large  $\Delta t$ ) TVD constraints.

**MSC:**

76M25 Other numerical methods (fluid mechanics) (MSC2010)

76R99 Diffusion and convection

65M12 Stability and convergence of numerical methods for initial value and initial-boundary value problems involving PDEs

Cited in 4 Documents

**Keywords:**

Courant number; large time step; TVD constraints

**Full Text:** DOI

**References:**

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