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Using high-order methods on adaptively refined block-structured meshes: derivatives, interpolations, and filters. (English) [Zbl 1133.65068](#)
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MSC:

- 65M06** Finite difference methods for initial value and initial-boundary value problems involving PDEs Cited in 7 Documents
- 35Q53** KdV equations (Korteweg-de Vries equations)
- 65M12** Stability and convergence of numerical methods for initial value and initial-boundary value problems involving PDEs

Keywords:

high order; derivative; interpolation; filter; numerical examples; Kuramoto-Svashinsky equation; finite difference method; Korteweg-de Vries equation; adaptive mesh refinement; convergence

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