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A note on finite difference method for generalized Zakharov equations. (English)

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The author supplies simplified proofs of some inequalities associated with difference schemes for generalized Zakharov equations. In these use is made of the differential and integral mid-value theorems.

Reviewer: [Ll.G.Chambers \(Bangor\)](#)

MSC:

- [65L12](#) Finite difference and finite volume methods for ordinary differential equations
- [26D10](#) Inequalities involving derivatives and differential and integral operators
- [65M06](#) Finite difference methods for initial value and initial-boundary value problems involving PDEs
- [65N06](#) Finite difference methods for boundary value problems involving PDEs

Cited in **10** Documents

Keywords:

finite difference method; convergence; Zakharov equation; differential mid-value theorem; integral mid-value theorem