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A new nonlinear discrete inequality and its application. (English) Zbl 0997.26009
Ann. Differ. Equations 17, No. 3, 261-267 (2001).

Authors abstract: "A new discrete inequality with the power nonlinearity is obtained which unifies and generalizes some known results due to B. G. Pachpatte. A certain initial value problem of a sum-difference equation is also given to convey the usefulness of the inequality obtained".

Reviewer: [B.G.Pachpatte \(Aurangabad\)](#)

MSC:

[26D10](#) Inequalities involving derivatives and differential and integral operators Cited in **3** Documents
[39A12](#) Discrete version of topics in analysis
[39A05](#) General theory of difference equations

Keywords:

[discrete inequality](#); [power nonlinearity](#); [initial value problem](#); [sum-difference equation](#)