

## INEQUALITIES FOR CERTAIN FINITE DIFFERENCE AND SUM-DIFFERENCE EQUATIONS

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*Abstract.* The aim of the present paper is to establish some basic finite difference inequalities which provide explicit bounds on unknown functions. The inequalities given here can be used as tools in applications in the theory of certain finite difference and sum-difference equations.

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*Key words and phrases:* Inequalities, finite difference and sum-difference equations, finite difference inequalities, explicit bounds, two independent variable generalizations, nonincreasing function.

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