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ON DIFFERENTIAL INEQUALITIES FOR DISCONTINUOUS NONLINEAR SYSTEMS OF EQUATIONS

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Abstract

In this paper existence of extremal solutions of systems of equations with discontinuous right hand side is obtained under certain monotonicity conditions and without assuming the existence of upper and lower solutions. Two basic differential inequalities corresponding to these systems of equations are obtained in the form of extremal solutions. And also we prove uniqueness of solutions of given systems under certain conditions.

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