

On quasilinear operators

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Abstract

The aim of this presentation is to discuss some useful properties of the quasilinear operators and to present some possible extensions of this concept to set-valued case. The notion of quasilinear operators has been introduced several years ago in the work "Some Existence Results of Solutions for General Variational Inequalities, *J. Optimiz. Theor. Appl.*, 150, 425-443, 2011". The usefulness of this concept is due to the fact that extends the concept of affine operators and also the concept of monotone functions. We present some applications of these operators in the framework of variational inequalities and we suggest some possible future researches.