A NEW VERSION OF THE DYNAMICAL SYSTEMS METHOD (DSM) FOR SOLVING NONLINEAR EQUATIONS WITH MONOTONE OPERATORS

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Abstract. A version of the Dynamical Systems Method for solving ill-posed nonlinear monotone operator equations is studied in this paper. A discrepancy principle is proposed and justified. A numerical experiment was carried out with the new stopping rule. Numerical experiments show that the proposed stopping rule is efficient.

Keywords and phrases: Dynamical systems method (DSM), nonlinear operator equations, monotone operators, discrepancy principle.

REFERENCES