

Abstract

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Approximate Solutions to a New Class of Nonlinear Parameter Dependent Operator Equations in Banach Spaces

A new class of pseudo m -accretive operators is introduced. Simple and efficient iterative methods for constructing solutions to nonlinear operator equations involving m -accretive operators in Banach spaces with various geometric structures are discussed. Error estimates in almost all cases are given. The established results improve, extend, and generalize many known results in the literature.