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STUDY OF FIRST DISCONTINUOUS ORDINARY DIFFERENTIAL EQUATIONS

RAKESH KUMAR SINGH
Research Scholar,
J. P. University, Chappra, India

Abstract

The existence and uniqueness theorems for the first order discontinuous differential equations have been obtained through Ascoli-Arzela theorem and Banach fixed point principle under the generalized measurability and Lipschitzicity conditions. An existence theorem and the maximum interval for the existence of the solution are also obtained without using the generalized Lipschitz condition and is a nonlinear alternative of Granas et. al.