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GLOBAL SOLVABILITY AND BEHAVIOR OF SOLUTION THE CAUCHY PROBLEM FOR THE QUASILINEAR HYPERBOLIC EQUATION WITH ANISOTROPIC ELLIPTIC PART AND INTEGRAL NONLINEARITY

Abstract

In this paper we investigate the Cauchy problem for a quasilinear hyperbolic equation with anisotropic elliptic part and integral nonlinearity. The theorem on global solvability is proved. The decrease order of solutions and their derivatives are obtainet as $t \to \infty$.