The mixed problem for the semilinear wave equation with a nonlinear boundary condition

O. Jokhadze

Department of Mathematics, Iv. Javakhishvili Tbilisi State University, 13 University St., 0186 Tbilisi, Georgia e-mail: otar.jokhadze@tsu.ge

Questions of uniqueness, existence of global and blow–up solutions of the mixed problem for a nonlinear wave equation with nonlinear boundary condition, depending on the nonlinearities present in the equation and the boundary conditions, are investigated.