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**EXISTENCE OF GLOBAL SOLUTION OF CAUCHY  
PROBLEM FOR A CLASS SYSTEM OF  
SEMI-LINEAR HYPERBOLIC EQUATIONS WITH  
DAMPING OF FOURTH ORDER**

**Abstract**

*A theorem on the existence of global solution of the Cauchy problem for a class of a system of semi-linear equations containing partial derivatives of fourth order with respect to some variables and second order partial derivatives with respect to some other variables is proved.*