

THE DARBOUX PROBLEM FOR THIRD ORDER HYPERBOLIC INCLUSIONS VIA CONTINUOUS SELECTIONS FOR CONTINUOUS MULTIFUNCTIONS.

GEORGETA TEODORU

Department of Mathematics
Technical University Gh. Asachi Iași
11 Carol I Blvd., RO-700506, Iași 6, Romania
E-mail: teodoru@gauss.math.tuiasi.ro

Abstract. In this paper we present, via a continuous selection theorem, an existence result for the Darboux problem corresponding to a third order hyperbolic inclusion of the form $u_{xyz} \in F(x, y, z, u)$.

Key Words and Phrases: Multifunction, upper and lower semicontinuity, selection, hyperbolic inclusion, Darboux problem.

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