

Dedicated to the Centenary of "Gazeta Matematică"

**GENERALIZED CONTRACTIONS AND HIGHER ORDER HYPERBOLIC PARTIAL
DIFFERENTIAL EQUATIONS**

Vasile BERINDE

Abstract. We establish existence and uniqueness results of (periodic) solutions for higher order partial differential equations by means of a generalized contraction principle.

A generalized Lipschitz condition (or Perron condition) is assumed instead of the classical Lipschitz condition.