

EXISTENCE OF POSITIVE SOLUTIONS FOR A NONLINEAR THIRD-ORDER INTEGRAL BOUNDARY VALUE PROBLEM *

Cheikh Guendouz[†] Faouzi Haddouchi[‡] Slimane Benaïcha[§]

Abstract

In this paper, we study the existence of at least one positive solution for a nonlinear third-order two-point boundary value problem with integral condition. By employing the Krasnoselskii's fixed point theorem on cones, the existence results of the problem are established.

MSC: 34B15, 34B18

keywords: Positive solutions, Krasnoselskii's fixed point theorem, third-order integral boundary value problems, existence, cone.

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[†] guendouzmath@yahoo.fr Laboratory of Fundamental and Applied Mathematics of Oran, Department of Mathematics, University of Oran 1 Ahmed Benbella, 31000 Oran, Algeria

[‡] fhaddouchi@gmail.com Department of Physics, University of Sciences and Technology of Oran-MB, El Mnaouar, BP 1505, 31000 Oran, Algeria
Laboratory of Fundamental and Applied Mathematics of Oran, Department of Mathematics, University of Oran 1 Ahmed Benbella, 31000 Oran, Algeria

[§] slimanebenaïcha@yahoo.fr Laboratory of Fundamental and Applied Mathematics of Oran, Department of Mathematics, University of Oran 1 Ahmed Benbella, 31000 Oran, Algeria