

POSITIVE SOLUTIONS FOR EVEN-ORDER MULTI-POINT BOUNDARY VALUE PROBLEMS ON TIME SCALES

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Abstract. In this paper, we consider the nonlinear even-order m -point boundary value problems on time scales. We establish the criteria for the existence of at least one and three positive solutions for higher order nonlinear m -point boundary value problems on time scales by using Krasnosel'skii's fixed point theorem and Leggett-Williams' fixed point theorem, respectively.

Key Words and Phrases: Boundary value problems, cone, fixed point theorems, positive solutions, time scales.

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