

Existence Solutions for Three Point Boundary Value Problem for Differential Equations

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Abstract : In this paper, under weak assumptions, we study the existence and uniqueness of solutions for a nonlinear fractional boundary value problem. New existence and uniqueness results are established using Banach contraction principle. Other existence results are obtained using Schaefer and Krasnoselskii's fixed point theorem. At the end, some illustrative examples are presented.

Keywords : Caputo derivative, boundary value problem, fixed point theorem, local conditions

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