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Weak Solutions for $p(z)$ -Laplacian Dirichlet Problems Involving Ψ -Hilfer Fractional Derivatives

Communication Info

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Abstract

In this paper, we investigate the existence of weak solutions for a class of Dirichlet boundary value problems involving the $p(z)$ -Laplacian operator and Ψ -Hilfer fractional partial derivatives. Within an appropriate fractional spaces, the problem is reformulated as an abstract Hammerstein-type equation, and the existence result is established by means of Berkovits's topological degree theory.

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