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Nonlinear integral equations with new admissibility types in b-metric spaces

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Abstract. In this paper, we aim to introduce new types of α-admissibility in the framework of b-metric spaces. Some examples to show the independently of each type of α-admissibility are given. Using these concepts, fixed point theorems satisfying generalized weak contractive condition in the setting of b-metric spaces are established. We furnish an illustrative example to demonstrate the validity of the hypotheses and the degree of utility of our results. As an application, we discuss the existence of a solution for the following nonlinear integral equation:

$$x(c) = \phi(c) + \int_a^b K(c, r, x(r))\, dr,$$

where $a, b \in \mathbb{R}$ such that $a < b$, $x \in C[a, b]$ (the set of all continuous functions from $[a, b]$ into $\mathbb{R}$), $\phi : [a, b] \to \mathbb{R}$ and $K : [a, b] \times [a, b] \times \mathbb{R} \to \mathbb{R}$ are given mappings.

Mathematics Subject Classification. 47H09, 47H10.

Keywords. Admissibility types, b-metric spaces, Hölder's inequality, nonlinear integral equations.

1. Introduction and preliminaries

In this section, we recollect some essential notations, required definitions and primary results coherent with the literature. Throughout this paper, we denote by $\mathbb{N}$, $\mathbb{R}_+$ and $\mathbb{R}$ the sets of positive integers, nonnegative real numbers and real numbers, respectively.

1.1. Altering distance functions

The classical Banach contraction principle and its applications are well known. In the recent past, many researchers extended this principle by considering relatively more general contractive mappings on various distance spaces such as metric spaces, cone metric spaces [17], complex-valued metric spaces [5], partial metric spaces [21], multiplicative metric spaces [24, 32], etc.

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Nonlinear Integral Equations In Abstract Spaces

Kathleen Armour

Nonlinear Integral Equations In Abstract Spaces:

Enjoying the Track of Term: An Mental Symphony within **Nonlinear Integral Equations In Abstract Spaces**

In a global taken by displays and the ceaseless chatter of immediate transmission, the melodic beauty and mental symphony created by the published word frequently fade in to the background, eclipsed by the persistent sound and interruptions that permeate our lives. However, located within the pages of **Nonlinear Integral Equations In Abstract Spaces** a stunning fictional treasure overflowing with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this fascinating masterpiece conducts readers on a psychological trip, well unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths of the moving assessment, we can discover the book is central harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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