

NEW TYPES OF TOPOLOGICAL MAPPINGS

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Abstract

The aim of this paper is to define new types of continuous functions namely \tilde{g}_α -continuous function, weakly \tilde{g}_α -continuous function, totally \tilde{g}_α -continuous and somewhat \tilde{g}_α -continuous function and investigate their properties. We establish the relationship between other existing continuous functions. As an application \tilde{g}_α -Hasdroff space is defined. We also introduce two types of homeomorphism via \tilde{g}_α -sets weaker than homeomorphism which induces an isomorphism and investigate its group structure.

Key Words and Phrases : \tilde{g}_α -closed sets \tilde{g}_α -open sets, \tilde{g}_α -continuous and totally \tilde{g}_α -continuous.

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