

TOPOLOGICAL UP-ALGEBRAS¹

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Abstract

In this paper, we introduce the notion of topological UP-algebras and several types of subsets of topological UP-algebras, and prove the generalization of these subsets. We also introduce the notions of quotient topological spaces of topological UP-algebras and topological UP-homomorphisms. Furthermore, we study the relation between topological UP-algebras, Hausdorff spaces, discrete spaces, and quotient topological spaces, and prove some properties of topological UP-algebras.

Keywords: topological UP-algebra, quotient topological space, topological UP-homomorphism.

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