

Erratum to “Supra M -topological space and decompositions of some types of supra msets”

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ABSTRACT. We show that an alleged remark stated in [3] is invalid in general, by giving an example.

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1. INTRODUCTION

A collection of elements containing duplicates is called multiset (mset [1] or bag [5], for short). Formally, if X is a set of elements, an mset M drawn from the set X is represented by a function count M or C_M defined as $C_M : X \rightarrow \mathbb{N}$ where \mathbb{N} represents the set of nonnegative integers.

Definition 1.1 ([4]). Let $M \in [X]^m$ and $N \subseteq M$. Then the complement N^c of N in $[X]^m$ is an element of $[X]^m$ such that

$$N^c = M \ominus N.$$

Remark 3.2 of [3] asserted that for any subset F of M –topological space (M, τ) the following assertions are satisfied:

- (1) $F \cap F^c = \emptyset$,
- (2) $F \cup F^c \neq M$.

This statement is wrong and we give an example showing the remark is indeed incorrect. For further notes related to multiset context (See [2, 6]).

2. EXAMPLE

The following example shows that Remark 3.2 of [3] is wrong, in general.

Example 2.1. Let $M = \{2/x, 3/y\}$, $N = \{2/x\}$. Hence $N^c = \{3/y\}$. It is clear that $N \cap N^c = \emptyset$ and $N \cup N^c = M$.

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