## Fuzzy Ideals in Near-subtraction Semigroups

D.R. Prince Williams

Abstract—In this paper,we introduce a notion of fazzy ideals in near-subtraction semigroups and study their related properties.

Keywords—subtraction algebra, subtraction semigroup, an ideal, near—subtraction semigroup, fluxzy level set, fluxzy ideal, fluxzy homomorphism.

#### I. INTRODUCTION

THE systems of the form  $\Phi$ , where  $(\Phi; \circ, \setminus)$ , considered by B. M. Schein [7], is a set of functions closed under the composition "o" of functions (and hence (4); o) is a function semigroup) and the set theoretic subtraction "\" (and hence (4: \) is a subtraction algebra in the sense of [1]). He proved that every subtraction semigroup is isomorphic to a difference semigroup of invertible functions. B.Zelinka [9] discussed a problem proposed by B. M. Schein concerning the structure of multiplication in a subtraction semigroup. He solved the problem for subtraction algebras of a special type, called the atomic subtraction algebras. Y. B. Jun et al. [3] introduced the notion of ideals in subtraction algebras and discussed characterization of ideals. In [4], Y. B. Jun and H. S. Kim established the ideal generated by a set, and discussed related results. Near-ring theory has been developed by Pilz[6]. Based on near-ring theory. Dheena at el. [2], introduced the nearsubtraction semigroups and strongly regular near-subtraction

The concept of fuzzy subset was introduced by L.A.Zadeh [8]. Fuzzy set theory is a useful tool to describe situations in which the data are imprecise or vague. Fuzzy sets handle such situation by attributing a degree to which a certain object belongs to a set.K.J. Lee and C.H. Park[5] introduced the notion of a fuzzy ideal in subtraction algebras, and give some conditions for a fuzzy set to be a fuzzy ideal in subtraction algebras. In this paper, we introduce the notion of fuzzy ideal in near-subtraction semigroup and have studied their related properties.

#### III. PRELIMENARIES

Definition 2.1: A non-empty set X together with a binary operation "—" is said to be a subtraction algebra if it satisfies the following:

- (1) x (y x) = x.
- (2) x (x y) = y (y x).
- (3) (x y) z = (x z) y, for all  $x, y, z \in X$ .

Example 2.2: Let  $X = \{0, a, b, 1\}$  in which "-" is defined by

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Then (X, -) is a subtraction algebra.

In a subtraction algebra the following holds:

(P1) x - 0 = x and 0 - x = 0.

(P2)(x-y)-x=0.

(P3)(x - y) - y = x - y.

(P4)(x-y)-(y-x)=x-y, where 0=x-x is an element that does not depend on the choice of  $x\in X$ .

Following [9],we have the following definition of subtraction semigroup.

Definition 2.3: A non-empty set X together with the binary operations "-" and "." is said to be a subtraction semigroup if it satisfies the following:

(SS1) (X; −) is a subtraction algebra.

 $(SS2)(X_{1:})$  is a semigroup.

(SS3) x(y-z) = xy-xz and (x-y)z = xz-yz, for all  $x,y,z \in X$ .

Example 2.4: [2] Let  $X = \{0, a, b, 1\}$  in which "-" and "."

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Then (X, -, .) is a subtraction semigroup.

Now we have the following definition of near-subtraction semigroup.

Definition 2.5: A non-empty set X together with the binary operations "-" and "." is said to be a near-subtraction semigroup if it satisfies the following:

(NS1) (X; -) is a subtraction algebra.

(NS2) (X;.) is a semigroup.

 $(NS3)(x-y)z = xz - yz, \text{for all } x, y, z \in X.$ 

It is clear that 0x = 0, for all  $x \in X$ . Similarly we can define a near-subtraction semigroup (left). Hereafter a near-subtraction semigroup means it is a near-subtraction semigroup(right) only.

Example 2.6: [2] Let  $X = \{0, a, b, 1\}$  in which "-" and "." are defined by

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			0.0			1	-0	100	100	100

Then (X, -, ...) is a near-subtraction semigroup.

# **Fuzzy Ideal In Near Subtraction Semirings**

Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi

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