Let $f : X \to Y$ be a function from a set $X$ to a set $Y$ and let $\mu$ be a fuzzy subset of $X$. The fuzzy subset $\nu$ of $Y$ defined by $\nu(y) = \begin{cases} \sup_{x \in f^{-1}(y)} \mu(x) & if \quad f^{-1}(y) \neq \phi, \quad \forall y \in Y \\ 0 & otherwise \end{cases}$

is called the image of $\mu$ under $f$, denoted by $f(\mu)$. If $\nu$ is a fuzzy subset of $Y$, the fuzzy subset $\mu$ of $X$ given by $\mu(x) = \nu(f(x))$ for all $x \in X$ is called the Preimage of $\nu$ under $f$ and is denoted by $f^{-1}(\nu)$. A fuzzy subset $\mu$ in $X$ has the sup property if for any $T \subseteq X$ there exists $x_0 \in T$ such that $\mu(x_0) = \sup_{x \in T} \mu(x)$. A fuzzy relation $\mu$ on a set $X$ is a fuzzy subset of $X \times X$, that is, a map $\mu : X \times X \to [0,1]$.

**Definition 2.6**[4, 6, 8]

Let $X$ be a nonempty set. A fuzzy (sub) set $\mu$ of the set $X$ is a mapping $\mu: X \to [0,1]$.

**Definition 2.7**[4, 6, 8]

Let $\mu$ be the fuzzy set of a set $X$. For a fixed $\alpha \in [0,1]$, the set $\mu_\alpha = \{x \in X : \mu(x) \geq \alpha\}$ is called an upper level of $\mu$ or level subset of $\mu$.

**Definition 2.8**[5, 7]

A fuzzy set $\mu$ in $X$ is called fuzzy BCK-ideal of $X$ if it satisfies the following inequalities

1. $\mu(0) \geq \mu(x)$
2. $\mu(x) \geq \min\{\mu(x * y), \mu(y)\}$

**Definition 2.9** [11]

Let $X$ be a nonempty set with a binary operation $*$ and a constant $0$. Then $(X, *, 0)$ is called a d - algebra if it satisfies the following axioms.

1. $x * x = 0$
2. $0 * x = 0$
3. $x * y = 0, y * x = 0 \Rightarrow x = y$ for all $x, y \in X$

**Definition 2.10** [12]

A fuzzy set $\mu$ in $X$ is called fuzzy d-ideal of $X$ if it satisfies the following inequalities

Fd1 $\mu(0) \geq \mu(x)$

Fd2 $\mu(x) \geq \min\{\mu(x * y), \mu(y)\}$

Fd3 $\mu(x * y) \geq \min\{\mu(x), \mu(y)\}$ for all $x, y \in X$

**Definition 2.11**[12] A fuzzy subset $\mu$ of $X$ is called a fuzzy dot d-ideal of $X$ if it satisfies The following conditions:

1. $\mu(0) \geq \mu(x)$
2. $\mu(x) \geq \mu(x * y) \cdot \mu(y)$
3. $\mu(x * y) \geq \mu(x) \cdot \mu(y)$ for all $x, y \in X$

## 3. FUZZY IDEALS ON BH-ALGEBRAS

**Definition 3.1**

A fuzzy set $\mu$ in $X$ is called fuzzy BH-ideal of $X$ if it satisfies the following inequalities

1. $\mu(0) \geq \mu(x)$
2. $\mu(x) \geq \min\{\mu(x * y), \mu(y)\}$
3. $\mu(x * y) \geq \min\{\mu(x), \mu(y)\}$ for all $x, y \in X$

# Fuzzy Dot Ideals And Fuzzy Dot H Ideals Of Bch Algebras

**K Morrison**

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