عنوان مقاله:

m,n)-Hyperideals in Ordered Semihypergroups)

نویسندگان:

Ahsan Mahboob - *Aligarh Muslim University*

Noor Khan - *Aligarh Muslim University*

Bijan Davvaz - *Yazd University*

خلاصه مقاله:

In this paper, first we introduce the notions of an (m,n)-hyperideal and a generalized (m,n)-hyperideal in an ordered semihypergroup, and then, some properties of these hyperideals are studied. Thereafter, we characterize (m,n)-regularity, (m,∘)-regularity, and (∘,n)-regularity of an ordered semihypergroup in terms of its (m,n)-hyperideals, (m,∘)-hyperideals and (∘,n)-hyperideals, respectively. The relations ${}_m\mathcal{I}$, $\mathcal{I}_n$, $\mathcal{H}_m^n$, and $\mathcal{B}_m^n$ on an ordered semihypergroup are, then, introduced. We prove that $\mathcal{B}_m^n \subseteq \mathcal{H}_m^n$ on an ordered semihypergroup and provide a condition under which equality holds in the above inclusion. We also show that the (m,∘)-regularity [(∘,n)-regularity] of an element induce the (m,∘)-regularity [(∘,n)-regularity] of the whole $\mathcal{H}_m^n$-class containing that element as well as the fact that (m,n)-regularity and (m,n)-right weakly regularity of an element induce the (m,n)-regularity and (m,n)-right weakly regularity of the whole $\mathcal{B}_m^n$-class and $\mathcal{H}_m^n$-class containing that element, respectively.

کلمات کلیدی:

Ordered semihypergroups, (m,∘)-hyperideals, (∘,n)-hyperideals

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