

عنوان مقاله:

Semihypergroups that every hyperproduct only contains some of the factors

محل انتشار:

دوفصلنامه ساختارهای جبری و کاربرد آنها، دوره 11، شماره 1 (سال: 1403)

تعداد صفحات اصل مقاله: 13

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خلاصه مقاله:

Breakable semihypergroups, defined by a simple property: every non-empty subset of them is a subsemihypergroup. In this paper, we introduce a class of semihypergroups, in which every hyperproduct of n elements is equal to a subset of the factors, called π_n -semihypergroups. Then, we prove that every semihypergroup of type π_{2k} , ($k \geq 2$) is breakable and every semihypergroup of type π_{2k+1} is of type π_3 . Furthermore, we obtain a decomposition of a semihypergroup of type π_n into the cyclic group of order 2 and a breakable semihypergroup. Finally, we give a characterization of semi-symmetric semihypergroups of type π_n .

کلمات کلیدی:

Breakable semihypergroup, Hypergroup, Hyperproduct, Semihypergroup of type π_n

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