

# عنوان مقاله:

The Cayley Sum Graph of Ideals of a Lattice

## محل انتشار:

اولین َکنفرانس مّلی مدل سازی ریاضیات و آمار در مطالعات کاربردی (سال: 1395)

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#### خلاصه مقاله:

Let L be a lattice, I(L) be the set of ideals of L and S be a subset of I(L). In this paper,we introduce an undirected Cayley graph of L, denoted by L;S with elements of I(L) as thevertex set and for two distinct vertices I and J, I is adjacent to J if and only if there is an element k of S such that  $I_K = J$  or  $J_K = I$ . We study some basic properties of the graph L;S such as connectivity, girth and clique number. Moreover, we investigate the planarity, outerplanarity and .ring graph of L;S

## کلمات کلیدی:

Lattice, Cayley graph, Ring graph, Outerplanar graph

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