

عنوان مقاله:

PERFECTNESS OF THE ANNIHILATOR GRAPH OF ARTINIAN COMMUTATIVE RINGS

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خلاصه مقاله:

Let R be a commutative ring and $Z(R)$ be the set of its zero-divisors. The annihilator graph of R , denoted by $AG(R)$ is a simple undirected graph whose vertexset is $Z(R)^*$, the set of all nonzero zero-divisors of R , and two distinct vertices x and y are adjacent if and only if $\text{ann}_R(xy) \neq \text{ann}_R(x) \cup \text{ann}_R(y)$. In this paper, perfectness of the annihilator graph for some classes of rings is investigated. More precisely, we show that if R is an Artinian ring, then $AG(R)$ is perfect.

کلمات کلیدی:

Artinian ring, Annihilator graph, Perfectness

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