Afkhami, Mojgan; Khashyarmanesh, Kazem; Shahsavar, Faeze
On the properties of zero-divisor graphs of posets. (English) Zbl 1455.05017
Quasigroups Relat. Syst. 28, No. 1, 1-16 (2020).

Summary: We determine the cut vertices in the zero-divisor graphs of posets and study the posets with end-regular zero-divisor graph. Also, we investigate the zero-divisor graph of the product of two posets. In particular, we determine all posets with planar and outerplanar zero-divisor graphs.

MSC:
05C10 Planar graphs; geometric and topological aspects of graph theory
05C99 Graph theory
06A07 Combinatorics of partially ordered sets

Keywords:
partially ordered set; zero-divisor graph; cut vertex; planar graph; end-regular

Full Text: Link