

Zbl 751.05070

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Absorbing common subgraphs. (In English)

Graph theory, combinatorics, algorithms, and applications, Proc. 2nd Int. Conf., San Francisco/CA (USA) 1989, 96-105 (1991).

[For the entire collection see Zbl 734.00014.]

Authors' abstract: A graph G without isolated vertices is an absorbing common subgraph of two graphs G_1 and G_2 of equal size if (1) G is isomorphic to a subgraph of G_1 and G_2 and (2) if H is any graph without isolated vertices that is isomorphic to a subgraph of G_1 and G_2 , then H is isomorphic to a subgraph of G . Graphs G_1 and G_2 are characterized that have an absorbing common subgraph. Several graphs are determined that are absorbing common subgraphs of some pair of graphs or of no pair of graphs.

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Classification:

05C60 Isomorphism problems (graph theory)

Keywords:

absorbing common subgraphs