

FACTORIZATION IN SEMIGRAPHS

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Abstract

Semigraph is a new type of generalization of graph which facilitates the study of graph from a broader perspective leading to new versions and interpretations of its already existing concepts and definitions. In particular, one can find different types of degree and adjacency of vertices in Semigraph though these concepts coincide with corresponding terms in ordinary Graph setting. Naturally, the Semigraph Theory opens up scope for plenty of new significant results, which may or may not hold in Graph Theory.

In this small paper, we have dealt with the problem of factorization in semigraph and obtained a necessary and sufficient condition for 1_e -factorability of a particular type of regular semigraph.

Key Words : 1_e -factorization, 1-factorization, 1_e -factor; 1-factor, Edge chromatic number.

2010 AMS Subject Classification : 05C70.