

ON EDGE OPEN PACKING SETS OF GRAPHS

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Abstract: A nonempty subset of the edge set of a graph G is called an edge open packing set if no two edges of it have a common edge. The edge open packing number $\rho_e^o(G)$ of a graph G is the maximum number of edges in an edge open packing set. In this paper, a number of results are presented concerning lower and upper bounds of $\rho_e^o(G)$ for graphs such as trees, split graphs and unicyclic graphs. Some open problems are proposed.

Keywords and Phrases: Open packing number, edge open packing number, split graphs, unicyclic graphs.

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1. Introduction

Here we concentrate only on graphs that are simple, finite, undirected and connected. For basic notations and terminology one can refer to Chartrand G. and Lesniak [1].

A primary reason for our interest towards this topic is because of the results in Meir A. and Moon J. W. [4]. In Sahul Hamid I. and Saravanakumar S. [10, 11], the