

Edge-magic total labelings

Edge-magic total labelings were introduced by A. Kotzig and A. Rosa in 1970 as follows:

An *edge-magic total labeling* on G is a one-to-one map λ from $V(G) \cup E(G)$ onto the integers $1, 2, \dots, |V(G)| + |E(G)|$ with the property that, given any edge (x, y) ,

$$\lambda(x) + \lambda(x, y) + \lambda(y) = k$$

for some constant k .

In the following papers we study the edge-magic total labelings.

- Bača, M. - Lin, Y. - Muntaner-Batle, F.A.- Rius-Font, M.: *Strong labelings of linear forests*, **Acta Math. Sinica, English Series** **25**, Issue 12 (2009), 1951-1964.
- Slamin - Bača, M. - Lin, Y. - Miller, M. - Simanjuntak, R.: *Edge-magic total labelings of wheels, fans and friendship graphs*, **Bulletin of ICA** **35** (2002), 89-98.
- Bača, M. - MacDougall, J.A. - Miller, M. - Slamin - Wallis, W.D.: *Survey of certain valuations of graphs*, **Discussiones Math. Graph Theory** **20** (2000), 219-229.