Abstract

Given a graph G (V, E) a labeling ¶: VÈE®{1, 2… k} is called an edge irregular total k-labeling if for every pair of distinct edges uv and xy, ¶(u) + ¶(uv) + ¶(v) ¹ ¶(x) + ¶(xy) + ¶(y). The minimum k for which G has an edge irregular total k-labeling is called the total edge irregularity strength of G. In this paper we examine the butterfly network which is a well known interconnection network, and obtain its total edge irregularity strength.

References

- S. Brandt, J. Miskuf, and D. Rautenbach, On a conjecture about edge irregular total labelings, J. Graph Theory, 57 (2008), 333-343.

Index Terms

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