Abstract

A (p, q) connected graph is edge-odd graceful graph if there exists an injective map \( f : E(G) \to \{1, 3, 5, \ldots, 2q-1\} \) so that induced map \( f^+:V(G) \to [0, 1, 2, 3, \ldots, (2k-1)] \) defined by \( f^+(x) = f(xy) \pmod{2k} \), where the vertex \( x \) is incident with other vertex \( y \) and \( k = \max\{p, q\} \) makes all the edges distinct and odd. In this article, the edge-odd gracefulness of \( (P_2 \cup P_n) \cup P_n \) \([n\text{ copies of doors}]\)
Graph of Cartesian Product of $S_m$ and $S_n$ "; The Global Journal of Pure and Applied Mathematics of Mathematical Sciences, 1, No-2 (July-Dec 2008b), 117-120.


**Index Terms**

Computer Science
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**Keywords**

- Graceful Graph
- Edge-odd graceful labeling
- Edge-odd Graceful Graph