Abstract

A (p, q) connected graph is edge-odd graceful graph if there exists an injective map \( f: E(G) \rightarrow \{1, 3, \ldots, 2q-1\} \) so that induced map \( f+: V(G) \rightarrow \{0, 1, 2, 3, \ldots, (2k-1)\} \) defined by \( f+(x) \equiv f(x, y) \pmod{2k} \), 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 strong product of \( P_2 \) and \( C_n \) is obtained.

Reference

A. Solairaju and K. Chitra, Edge-odd graceful labeling of some graphs “ Electronics Notes in Discrete Mathematics Volume 33, April 2009, Pages 15 - 20

A. Solairaju, A. Sasikala, C. Vimala, edge-odd graceful labeling of the square 2-nC4, 3-nC4, 4-nC4, (communicated to Serial Publications, New Delhi)

**Index Terms**

Computer Science  
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**Key words**

Graceful Graphs  
Edge-odd graceful labeling

Edge-odd Graceful Graph