Abstract

The generalization of graceful labeling is termed as k-graceful labeling. In this paper it has been shown that $C^r_n \mod 4$ is k-graceful for any $k \in \mathbb{N}$ (set of natural numbers) and some results related to missing numbers for k-graceful labeling of cycle $C_n$, comb $P_n-1K_1$, hairy cycle $C_n-1K_1$ and wheel graph $W_n$ have been discussed.

References

- Liang, Zh. H., Sun, D. Q., Xu, R. J. 1993. k-graceful labeling of the wheel graph W_{2k}, J. Hebei Normal College, 1, 33-44.

**Index Terms**

Computer Science

Applied Mathematics

**Keywords**

k-Graceful labeling k-graceful graphs missing numbers.