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EDITORS

**Dr. S. Balamuralitharan
Dr. Wutiphol Sintunavarat
Dr. K. Sujith
Dr. R. Santhi Devi**

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Edited by

Dr.S.Balamuralitharan

Dr. Wutiphol Sintunavarat

Dr. K. Sujith

Dr. R. Santhi Devi

Chendur Publishing House, Chennai, India

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EQUITABLE TOTAL COLORING OF SOME CLASS TREES AND MERGING OF CYCLE

R. Sudhakar, G. Jayaraman

Abstract

An equitable total coloring (χ''_{et}) of a graph was introduced by Fu in 1994. He gave the conjecture that for any simple graph G the condition $\chi''_{et}(G) \leq \Delta(G) + 2$ holds. The graph $G = (V, E)$ is called equitably total k -colorable if the vertex set and edge set of the graph can be partitioned into k non-empty independent sets $T_1, \dots, T_k$ such that $|T_i| - |T_j| \leq 1$ for every i and j . In this paper we examine and establish equitable total coloring of some trees and merging of cycles.

Keywords: Equitable total coloring, Trees, Cycle.

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