

(a,d)-edge-antimagic total labelings of caterpillars

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2003 Article

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Published in:

- Proceeding
- IJCCGGT'03 Proceedings of the 2003 Indonesia-Japan joint conference on Combinatorial Geometry and Graph Theory
- Pages 169-180
- Springer-Verlag Berlin, Heidelberg ©2005
- [table of contents](#) ISBN:3-540-24401-8 978-3-540-24401-1 doi>[10.1007/978-3-540-30540-8_19](#)

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For a graph $G = (V, E)$, a bijection g from $V(G) \cup E(G)$ into $\{1, 2, \dots, |V(G)| + |E(G)|\}$ is called (a, d) -edge-antimagic total labeling of G if the edge-weights $w(xy) = g(x) + g(y) + g(xy)$, $xy \in E(G)$, form an arithmetic progression with initial term a and common difference d . An (a, d) -edge-antimagic total labeling g is called super (a, d) -edge-antimagic total if $g(V(G)) = \{1, 2, \dots, |V(G)|\}$.

We study super (a, d) -edge-antimagic total properties of stars S_n and caterpillar Sn_1, n_2, \dots, n_r .

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