## **Turkish Journal of Mathematics**

Turkish Journal	On the Weak-Integrity of Trees
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Keywords Authors	<u>Abstract:</u> In this paper the concept of {\em weak-integrity} is introduced as a new measure of the stability of a graph \( G \) and it is defined as $I_w(G) = \{\min_{S \setminus S \cup S \in V(G)} \setminus \{ S  + m_e(G-S) \setminus \}\}$ , where $m_e(G-S)$ denotes the number of edges of a largest component of G-S. We investigate the weak-integrity of trees and compute the weak-integrity of a binomial tree and all the trees with at most 7 vertices. We also give some results about the weak-integrity of graphs obtained from binary operations.
@	Key Words: Stability; Connectivity; Integrity
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