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A new counting formula and its application to edge reconstruction.

Proceedings of the Twenty-fourth Southeastern International Conference on Combinatorics, Graph Theory, and Computing (Boca Raton, FL, 1993).

Congr. Numer. **98** (1993), 213–221.

Summary: “This is a brief summary of recent results obtained by a new counting formula for edge reconstruction of graphs. The following results are discussed, where ν and ε denote the number of vertices and edges, respectively: (1) A 2-edge-connected bipartite graph $G = (A, B)$ is edge reconstructible if $\varepsilon(G) > \frac{1}{2}\nu(A)\nu(B)$; (2) a graph G with 3-connected pruned center P is edge reconstructible if $\varepsilon(P) > \frac{1}{2}\binom{\nu(P)}{2}$; and (3) a graph G with pruned center P is edge reconstructible if $\varepsilon(P) > \frac{1}{4}p(p+3)$.”

{For the entire collection see [MR1267334 \(94k:05007\)](#)}

Reviewed by *R. L. Hemminger*

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