

1129-05-74

John T Saccoman* (saccomjt@shu.edu), 400 South Orange Ave., South Orange, NJ 07079.

The Contributions of the Seton Hall/Stevens Graph Theory Group to the Spanning Tree Problem.

The Stevens Tech Graph Theory group, originated by Charlie Suffel and the late Frank Boesch, was a hub of research throughout the 1980s and early 90s. The group produced scores of papers and mentored dozens of Ph.D. theses. Of particular interest in the early years was the spanning tree problem, as the number of spanning trees of a graph is a measure of vulnerability of the related network to disconnection by edge failure. We present some of the results from the group as well as more recent results from its current incarnation as the Seton Hall/Stevens Graph Theory Group.

Keywords: spanning trees, eigenvalues, multigraphs, spectral graph theory (Received March 02, 2017)