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Xiaofeng Gu* (xgu@uwsuper.edu), Mathematics and Computer Science Department, University of Wisconsin-Superior, Superior, WI 54880. *Edge-disjoint spanning 2-connected k -edge-connected subgraphs and spanning trees.*

It is proved that every $(4kp - 2p + 2q)$ -connected graph contains edge-disjoint p spanning subgraphs G_i for $1 \leq i \leq p$ and q spanning trees such that each G_i is k -edge-connected, essentially $(2k - 1)$ -edge-connected, and $G_i - v$ is $(k - 1)$ -edge-connected for all $v \in V(G)$. This extends the well-known result of Nash-Williams and Tutte on packing spanning trees, a theorem of Jordán that every $6p$ -connected graph contains p edge-disjoint spanning 2-connected subgraphs, and a theorem of Cheriyan et al. that every $(6p + 2q)$ -connected graph contains edge-disjoint p spanning 2-connected subgraphs and q spanning trees. (Received January 31, 2015)