

عنوان مقاله:

On eigenspaces of some compound complex unit gain graphs

محل انتشار:

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خلاصه مقاله:

Let \mathbb{T} be the multiplicative group of complex units, and let $L(\Phi)$ denote the Laplacian matrix of a nonempty \mathbb{T} -gain graph $\Phi=(\Gamma, \mathbb{T}, \gamma)$. The gain line graph $L(\Phi)$ and the gain subdivision graph $S(\Phi)$ are defined up to switching equivalence. We discuss how the eigenspaces (determined by the adjacency eigenvalues of $L(\Phi)$ and $S(\Phi)$) are related with those of $L(\Phi)$.

کلمات کلیدی:

Complex unit gain graph, line graph, subdivision graph, oriented gain graph, voltage graph

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