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Spanning trees in the theory of graph spectra. (English) Zbl 0942.05015

The number of spanning trees in a (connected) graph can be obtained from the Laplacian spectrum of the graph, and in some special cases from the spectrum of the adjacency matrix. A survey of enumeration results for the number of spanning trees, which are obtained by spectral techniques, is given. Some links between spanning trees and graph spectra, including possible applications, are also discussed.

For the entire collection see [Zbl 0882.00028].

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MSC:

05C05 Trees
05C30 Enumeration in graph theory
05C50 Graphs and linear algebra (matrices, eigenvalues, etc.)

Keywords:
enumeration; spanning tree; adjacency matrix; Laplace matrix