

عنوان مقاله:

NUMBER OF SPANNING TREES FOR DIFFERENT PRODUCT GRAPHS

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خلاصه مقاله:

In this paper simple formulae are derived for calculating the number of spanning trees of different product graphs. The products considered in here consists of Cartesian, strong Cartesian, direct, Lexicographic and double graph. For this purpose, the Laplacian matrices of these product graphs are used. Form some of these products simple formulae are derived and whenever direct formulation was not possible, first their Laplacian matrices are transformed into single .block diagonal forms and then using the concept of determinant, the calculations are performed

کلمات کلیدی:

Graph product, Cartesian, strong Cartesian, direct, lexicographic, double graph, spanning trees, Laplacian matrix, determinant, eigenvalues

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