

عنوان مقاله:

Expansion and Factorization of Three Special Matrices Using Stirling Numbers

محل انتشار:

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خلاصه مقاله:

In this paper we introduce the Pascal, Stirling and Vandermonde matrices of one and two variables. It is shown that these matrices can be obtained from the Stirling numbers of the first kind $s(n, k)$ and of the second kind $S(n, k)$. Also the factorization and LDU factorization of the Stirling and Vandermonde matrices are obtained using Pascal and some special matrices. AMS classification: 15-xx ; 33-xx

کلمات کلیدی:

Stirling numbers; Pascal matrix; Stirling matrix; Vandermonde matrix; LDU factorization

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