

Taras Goy and Roman Zatorsky

*On Oresme Numbers and Their Connection with Fibonacci and Pell Numbers,*

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**Abstract**

In this paper, we consider determinants for some families of Toeplitz-Hessenberg matrices whose entries are Oresme numbers. These determinant formulas may also be rewritten as identities involving sums of products of Oresme numbers and multinomial coefficients. In particular, we establish a connection between the Oresme and the Fibonacci and Pell sequences via Toeplitz-Hessenberg determinants.