PRODUCT OF GENERATOR MATRICES OF KNOWN SEQUENCES

AND SALIENT FEATURES

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ABSTRACT

In this article we discuss some important salient features of different matrices obtained by the result of product of generator matrices of some known sequences. These features, as the study indicates, inherit some properties, like recurrence relation, and irrational part of Eigen values to that of original sequences considered for the purpose.

We have also seen that, in some cases, these properties parallel to corresponding terms in the generalized form of the product matrix and hence giving rise to new sequences.

KEYWORDS: Pell Sequence, Fibonacci sequence, Jha Sequence, Operator Matrix & Eigen Values