ON NEW INTERPRETATIONS OF GENERALIZED TELEPHONE NUMBERS

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Generalized telephone numbers, being one-parameter generalization of classical telephone numbers, are given by the recurrence relation

$$T_{n,p} = pT_{n-1,p} + (n - 1)T_{n-2,p}$$

with initial conditions $T_{0,p} = 1$, $T_{1,p} = p$. In the talk we focus on connections between generalized telephone numbers and Hessenberg matrices. We also give few graph interpretations of these numbers.

Keywords: generalized telephone numbers, Hessenberg matrices, edge-colouring of a graph.

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References
