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On Sums of Products of Fibonacci-Type Recurrences,
Fibonacci Quart. **52** (2014), no. 1, 20–26.

Abstract

We derive two formulas for the summation $\sum_{i=0}^n C_{r+i}D_{s+i}$, where both C_k and D_k satisfy the same generalized second-order recurrence. They lead to many summation and product formulas for Fibonacci-type, Pell-type, and Jacobsthal-type numbers.