

CHEBYSHEV MATRIX POLYNOMIALS OF THE THIRD AND FOURTH KINDS

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Abstract

Chebyshev matrix polynomials of the first and second kinds are defined in [E. Defez and L. Jódar, Chebyshev matrix polynomials and second order matrix differential equations, Utilitas Mathematica 61 (2002), 107-123] and [Raed S. Batahan, A new extension of Hermite matrix polynomials and its applications, Linear Algebra Appl. 419(1) (2006), 82-92], respectively. We define Chebyshev matrix polynomials of the third and fourth kinds.

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