



## Chebyshev-Like Matrix Polynomials

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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-like matrix polynomials including them.

**Keywords and phrases:** Chebyshev-like polynomials, Chebyshev matrix polynomials.

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