

**A NOTE ON TYPE 2 DEGENERATE DAEHEE POLYNOMIALS
AND NUMBERS OF THE SECOND KIND**

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Abstract: In this paper, we construct the type 2 degenerate Daehee numbers and polynomials of the second kind and their higher-order analogues, and investigate some properties of these numbers and polynomials. In addition, we give some new identities and relations between the type 2 degenerate Daehee polynomials of the second kind and degenerate Bernoulli polynomials of the second kind, an identity involving higher-order analogues of those polynomials and the degenerate Stirling numbers of the second kind, and an expression of higher-order analogues of those polynomials in terms of higher-order type 2 degenerate Bernoulli polynomials and the degenerate Stirling numbers of the first kind.

Keywords and Phrases: Type 2 degenerate Daehee polynomials and numbers, higher-order type 2 degenerate Daehee polynomials and numbers, Stirling numbers, degenerate central factorial numbers.

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