

Khristo N. Boyadzhiev

*Derivative polynomials for  $\tanh$ ,  $\tan$ ,  $\operatorname{sech}$  and  $\sec$  in explicit form,*  
Fibonacci Quart. **45** (2007), no. 4, 291–303.

**Abstract**

The derivative polynomials for the hyperbolic and trigonometric tangent, cotangent and secant are found in explicit form, where the coefficients are given in terms of the Stirling numbers of the second kind. As an application we evaluate some integrals and also give the reflection formula for the Polygamma function in explicit form.