List of publications

N.M. Temme
Centrum Wiskunde & Informatica (CWI),
Science Park 123, 1098 XG Amsterdam, The Netherlands

e-mail: Nico.Temme@cwi.nl
URL: http://homepages.cwi.nl/~nicot/

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Publications in scientific journals and proceedings

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17. Quadruple integral equations for the charged disc and coplanar annulus (with R. de Bruin), Mathematical Centre Report TW 216, 1981.


64. Steepest descent paths for integrals defining the modified Bessel functions of imaginary order, *Methods and Applications in Analysis*, 1, 14–24, 1994.


73. Are relativistic effects significant for the analysis of whistler–mode waves in the earth’s magnetosphere (with S.S. Sazhin & A.E. Sumner), 139–142 in *Space plasmas: Coupling between small and medium scale processes*, Maha Ashour-Abdalla, Tom Chang and Paul Dusenbery (eds.), Geophysical monograph 86, American Geophysical Union, 1995.


144. Large degree asymptotics of polynomials used in Bessel-type expansions of Kummer functions (with José López). *Numerische Mathematik* 116, no. 2, 269–280, 2010.


152. An improved algorithm and a Fortran 90 module for computing the conical function $P_{m/2+1}^{-1} \times (x)$. (with Amparo Gil and Javier Segura). *Computer Physics Communications*, 183, 794–799, 2012.


159. Special functions: Computation (with Amparo Gil and Javier Segura). Accepted for the *Encyclopedia of Applied and Computational Mathematics* [230]. Springer.


Submitted or in preparation

1. Computation of the incomplete gamma function for negative values of the argument (with Amparo Gil, Diego Ruiz-Antolin and Javier Segura).

2. Computing the Kummer function $U(a,b,z)$ for real values of the arguments (with Amparo Gil and Javier Segura).
3. Algorithms for the computation of the noncentral beta distribution (with Amparo Gil and Javier Segura).


5. High-degree Gauss quadrature: Laguerre polynomials (with Amparo Gil and Javier Segura).

6. A Lagrange formula for the remainder in two-point Taylor Expansions of analytic functions (with José L. López).


Books


Editor of books


