

Abstracts

On the Use of Chebyshev-Toeplitz Algorithm in Accelerating the Numerical Convergence of Infinite Series (Short Papers)

S. Singh and R. Singh. "On the Use of Chebyshev-Toeplitz Algorithm in Accelerating the Numerical Convergence of Infinite Series (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.1 (Jan. 1992 [T-MTT]): 171-173.

It is shown here that a simple application of the Chebyshev-Toeplitz algorithm enhances the rate of convergence of slowly converging series. The algorithm is applied to series representing the periodic Green's functions involving a single infinite summation. The algorithm yields highly accurate results within relatively fewer terms. A quantitative comparison is shown with methods previously reported in the literature.

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