

Abstracts

Application of Transforms to Accelerate the Summation of Periodic Free-Space Green's Functions (Short Papers)

S. Singh and R. Singh. "Application of Transforms to Accelerate the Summation of Periodic Free-Space Green's Functions (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.11 (Nov. 1990 [T-MTT]): 1746-1748.

The results of applying two acceleration techniques to accelerate the convergence of free-space Green's functions of the Helmholtz equation are presented. The techniques make use of Kummer's, Poisson's, and Shanks's transforms. It is shown that considerable savings in computation time is achieved by application of the transforms. Numerical results include relative error versus number of terms taken in the series, and computation time versus a predefined convergence factor.

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