

Abstracts

Rapid summation of the Green's function for the rectangular waveguide

*Myun-Joo Park and Sangwook Nam. "Rapid summation of the Green's function for the rectangular waveguide." 1998 *Transactions on Microwave Theory and Techniques* 46.12 (Dec. 1998, Part I [T-MTT]): 2164-2166.*

A rapid calculation scheme is proposed for the potential Green's functions in the rectangular waveguide. The Ewald sum technique converts the slowly convergent Green's function series into the sum of two rapidly convergent series through the error-function transformation. The efficient numerical calculation method of the resultant expression is also presented.

[Return to main document.](#)