

Abstracts

Reduced Form of the Green's Functions for Disks and Annular Rings (Short Papers)

F.A. Alhargan and S.R. Judah. "Reduced Form of the Green's Functions for Disks and Annular Rings (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.3 (Mar. 1991 [T-MTT]): 601-604.

Available Green's functions for circular and annular ring microstrip circuits involve doubly infinite series. These series are computationally expensive in terms of the time necessary for summing the series and the memory required to hold the eigenvalues. In this paper the Green's function is simplified to a single series using a new single-summation method. The resulting single series eliminates the need for the eigenvalues and increases the speed of computation.

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