

Analytical evaluation of the MoM matrix elements for the capacitance of a charged plate

Jen-Tsai Kuo and Ke-Ying Su. "Analytical evaluation of the MoM matrix elements for the capacitance of a charged plate." 2002 Transactions on Microwave Theory and Techniques 50.5 (May 2002 [T-MTT]): 1435-1436.

Closed-form expression is derived for the fourfold integral involved in the evaluation of the capacitance of a charged plate using the Galerkin's procedure in the method of moments. The dimensions of each rectangular subsection for discretizing the conducting plate can be arbitrary. The calculated solutions converge faster than the point-matching results, as expected.

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