

Abstracts

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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