

Abstracts

Computation of the Parallel-Plate Capacitor with Symmetrically Placed Unequal Plates

W. Lin. "Computation of the Parallel-Plate Capacitor with Symmetrically Placed Unequal Plates." 1985 Transactions on Microwave Theory and Techniques 33.9 (Sep. 1985 [T-MTT]): 800-807.

The classical problem of the parallel-plate capacitor has been investigated by a number of authors, including Love and Langton; the latter gives good results that are still not complete as claimed. In this paper, the constants occurring in the Schwarz-Christoffel equations are correctly related to the dimensions of the capacitor. The electric intensity is studied and four typical values are given along the central line of force in the general case of the parallel-plate capacitor with symmetrically placed unequal plates. For the symmetrical case of an equal plate, the complete field distribution is given by constructing the family of lines of force.

[Return to main document.](#)