

Abstracts

A Comparison of Two Approximations for the Capacitance of a Circle Concentric with a Cross (Short Papers)

H.J. Riblet. "A Comparison of Two Approximations for the Capacitance of a Circle Concentric with a Cross (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.10 (Oct. 1991 [T-MTT]): 1784-1788.

The maximum and minimum capacitances on circles concentric with an internal cross are determined for a four-lobed as well as an eight-lobed equipotential distribution. The average and geometric mean of these extreme capacitances are then compared with the exact capacitance. The increased accuracy obtained from the eight-lobed equipotential distribution is presented in graphical form.

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