Abstracts

The Limiting Value of the Interaction Between Symmetrical Fringing Capacitances (Short Papers)

It is well known that the fringing capacitances determined for rectangular bars between parallel plates interact with each other when $w/(b - t)$-->0. The limit of this interaction as s --> 0 for fixed w, b, and t is determined for symmetrical odd-mode fringing capacitances. This limit, together with an exact value known from one rectangular section and the known asymptotic value as s-->0, permits one to estimate the values for all s. The same is true for the interaction of the symmetrical even-mode fringing capacitances, except that their interaction is readily shown to tend to zero as s-->0.

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