

Abstracts

Development of CAD formulas of integrated circuit components-simplified formulation followed by rigorous derivation

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This development starts from a simplified (fuzzy) formulation and continues with derivations leading to desired CAD formulas of practical circuit components. Because of the simplification at the beginning, the derivation and the formula can be rigorous but remain simple at the same time. Simplification is applied only once still, at the beginning of the derivation. Therefore the error resulted is not larger than that of regular methods, analytical or numerical. Many examples of simple and insightful CAD formulas are given in this paper.

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