

## Interperiod Capacitance Calculations for Three-Dimensional Multiconductor Systems

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*R.-B. Wu. "Interperiod Capacitance Calculations for Three-Dimensional Multiconductor Systems." 1988 Transactions on Microwave Theory and Techniques 36.11 (Nov. 1988 [T-MTT]): 1515-1520.*

A novel approach is proposed to facilitate the capacitance calculations for periodic three-dimensional multiconductor systems. Based on the Fourier transform technique, the approach requires only the conductors inside one period and solves the charge distribution in the spectral domain by the integral equation method. The resultant spectral capacitances are then inverse transformed to give the capacitances between any two conductors, which may even be inside different periods. The approach is finally applied to the capacitance analysis for connector pins in a packaging board design.

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