

Equivalent Circuit Models for Three-Dimensional Multiconductor Systems

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Multiconductor or multiwire arrangements find many applications in electronic systems. Examples are interconnections between digital circuits or integrated microwave circuits. Equivalent circuit models are derived here from an integral equation to establish an electrical description of the physical geometry. The models, which are appropriately called partial element equivalent circuits (PEEC), are general in that they include losses. Models of different complexity can be constructed, to suit the application at hand.

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