

Optimization of power distribution box circuits

In this paper, we propose scalable D-OPF algorithms that simultaneously achieve optimal and feasible solutions by solving multiple iterations of approximate, or relaxed, D-OPF subproblems of low ...

A centralized optimization model is presented to coordinate the fast-dispatch of PV inverters and the slow-dispatch of conventional voltage regulation devices (OLTC and CBs) to facilitate voltage ...

This paper proposes an electrothermal co-optimization design methodology for a 2.5D power distribution network with thermal through silicon via (TTSV) cooling.

The impedance analysis and optimization methods discussed here are universally applicable to any circuit platform.

To solve this complex and non-convex optimization problem, we developed the Shrinking Net Algorithm (SNA), a novel metaheuristic with mathematically proven convergence. The proposed ...

This paper describes the modelling analysis for a power-distribution network and demonstrates co-design and co-simulation in using the detailed prototype model, which includes a chip, package, ...

In this paper, we present simulation techniques to estimate the worst-case voltage variation using a RC model for the power distribution network.

Complex semiconductor packages face Power Integrity (PI) issues due to high speed operation and denser geometries. DC and AC analysis of the power distribution network is critical to ...

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Experimental results on circuits extracted from layout are presented to validate the simulation and optimization techniques. With the increasing levels of integration and the associated ...

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