

Bei dem hier beschriebenen Training handelt es sich um ein Cadence Standard Training. Sie erhalten eine Dokumentation in englischer Sprache. Die Trainingsprache ist deutsch, falls nicht anders angekündigt.

Allegro PCB SI Power Integrity

Overview

Description

SpecctraQuest Power Integrity is an EDA software tool that provides a coherent methodology for the design and fabrication of power distribution systems (PDS) in high-speed printed circuit boards (PCB). Power distribution system design includes voltage regulator modules, decoupling capacitors, and power/ground planes.

You need the Power Integrity tool to assist you in the design of a stable power distribution system to support high-speed circuit operation

Power Integrity allows you to

- Minimize common-impedance coupling and common-mode switching noise
- Minimize or eliminate signal integrity problems related to power supply droop

The high-level workflow consists of the following

- Set up the board database for analysis
- Define the target impedance
- Perform single-node analysis to validate and refine your capacitor selection
- Perform multi-node analysis to refine your placement

Audience

- ASIC Designers
- Analog Designers
- Design Engineers
- Electrical Engineers
- Hardware Engineers
- Logic Designers

Software

- SpecctraQuest

Prerequisites

- [SpecctraQuest Foundations](#)

Related Courses

- [Advanced SpecctraQuest Techniques](#)