

Special Session 5

Embedded Tutorial

Challenges for Mixed-Signal Board Design and Test

Presenter: G. Roberts

This embedded tutorial explores the gray art of mixed-signal device interface board (DIB) design for mixed-signal production testers. A good DIB is one of the most critical elements in a successful mixed-signal test solution. Without good DIB performance, the DUT may be unable to meet its specifications, regardless of quality of the test code or the number of DFT circuits used. Topics to be discussed include printed circuits boards, DIB traces, ground layout, crosstalk, shielding, transmission lines, and tester loading. This tutorial emphasizes practical knowledge rather than a theoretical perspective.