



The Boundary-Scan Handbook

Kenneth P. Parker

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Boundary-Scan, formally known as IEEE/ANSI Standard 1149.1-1990, is a collection of design rules applied principally at the integrated circuit (IC) level that allow software to alleviate the growing cost of designing and producing digital systems. The primary benefit of the standard is its ability to transform extremely printed circuit board testing problems that could only be attacked with ad-hoc testing methods into wellstructured problems that software can easily and swiftly deal with. The Boundary-Scan Handbook is for professionals in the electronics industry who are concerned with the practical problems of competing successfully in the face of rapid-fire technological change. Since many of these changes affect our ability to do testing and hence cost-effective production, the advent of the 1149.1 standard is rightly looked upon as a major breakthrough. However, there is a great deal of misunderstanding about what to expect of 1149.1 and how to use it. Because of this, *The Boundary-Scan Handbook* is not a rehash of the 1149.1 standard, nor does it intend to be a tutorial on the basics of its workings. The standard itself should always be consulted for this, being careful to follow supplements issued by the IEEE that clarify and correct it. Rather, The Boundary-Scan Handbook motivates proper expectations and explains how to use the standard successfully.



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