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Boundary-Scan Test: A Practical Approach

By Harry Bleeker

Springer. Paperback. Book Condition: New. This item is printed on demand. Perfect Paperback. 244 pages. This new book will act an introduction to as well as a practical guide to Boundary-Scan testing. The ever increasing miniaturization of digital electronic components is hampering the conventional testing of Printed Circuit Boards (PCBs) by means of bed-of-nails fixtures. Basically this is caused by the very high scale of integration of ICs, through which packages with hundreds of pins at very small pitches of down to a fraction of a millimeter, have become available. As a consequence, the trace distances between the copper tracks on a printed circuit board came down to the same value. Not only have the required small physical dimensions of the test nails made conventional testing unfeasible, the complexity to provide test signals for many hundreds of test nails has grown beyond manageable limits. A new board test methodology has to be invented. Following the evolution in the IC test technology, Boundary-Scan testing has become the new approach to PCB testing. By taking precautions in the design of the IC (design for testability), testing on a PCB level could be simplified to a great extent. This condition has been essential...



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