Upcoming workshops

Two upcoming workshops that deal with design and test topics are planned during the next couple of months.

The third annual Built-In Self-Test Workshop, sponsored by the IEEE Computer Society Test Technology Committee and the International Test Conference, is scheduled for March 27-29 at Kiawah Island, Charleston, South Carolina. The workshop deals with such topics as the relationship between BIST and reliability, BIST requirements and restraints, design issues and trade-offs, design approaches and implementation techniques, and BIST evaluation and validation. For additional information, contact Richard Sedmak, BITE, Inc., PO Box 133, Maple Glen, PA 19002; (215) 576-5650.

The 1985 IEEE VLSI Test Workshop, sponsored by the IEEE Computer Society and the IEEE Philadelphia Section, has the subtitle "Microsystem Challenges." It is planned for April 1-2 at Bally’s Park Place Casino Hotel, Atlantic City, New Jersey. The workshop deals with LSSD, BIT, self-test, testability, economics, test equipment, knowledge-based systems, simulation, redundancy, logistics, fault-tolerance, etc. Contact Bob Tigue, IBM Dept. 69J/422, Neighborhood Road, Kingston, NY 12401; (914) 385-7440.

Two new publications available from Teradyne

Teradyne offers two new publications—a booklet dealing with the economics of VLSI testing and a 1985 calendar featuring the company’s innovations in laser trimming.

After briefly describing the factors that contribute to the cost of testing VLSI devices, the 44-page booklet presents a sample economic model in which typical figures are assumed for each element of test cost. The figures are used in the booklet to calculate the cost per device tested and the payback period for a test system. Perhaps the most useful parts of the booklet are two worksheets, one designed for VLSI device manufacturers and the other for device users, which can be used to calculate test costs and payback periods for specific situations. Teradyne plans to offer computer versions of these worksheets so that the calculations can be made on personal computers. The booklet can be obtained from Kathy Amend, Teradyne, Inc., 2125 Califa Street, Woodland Hills, CA 91367.

The full-color 1985 calendar—33 inches long by 11 inches wide—shows Teradyne’s history of applying laser techniques to electronics manufacturing, against a background of technological milestones that have shaped today’s world. The calendar may be obtained from Teradyne, Inc., c/o Inquiry Systems and Analysis, 35 Morrissey Boulevard, Boston, MA 02125.

Dataquest conference draws over 200 attendees

Dataquest Inc., San Jose, CA, held its 1984 CAD/CAM Industry Conference at the Silverado Country Club, Napa, CA, from November 12 through November 14, 1984. According to Beth W. Tucker, manager of CAD/CAM industry service at Dataquest, more than 220 people from several countries attended the conference. The three-day program covered a variety of topics on electronic CAD/CAM, mechanical and architectural CAD/CAM, system architectures, applications of personal computers to CAD, network interconnection, and market survey. Dataquest projected that the worldwide market of electronic CAD, or ECAD, would grow to $3.6 billion from $765 million in 1984. The major market drivers include lower system prices, networking of workstations and systems, growing semiconductor and printed circuit board markets, and improved CAE. Computation, Calma, Rascal-Redec, Scientific Calculations, Applicon, Daisy and Mentor were projected to be market leaders.

Transition to one-micron technology

During the last few months, Semiconductor International magazine has published a series of articles entitled, "Transition to One-Micron Technology." The entire series of ten articles, reprinted in full color, is now available as a booklet.

Articles of particular interest include, "Making the Design Transition," "Packaging for Performance," and "Testing Challenges."

The booklet may be ordered from Cahners Reprint Services, 1350 East Touhy Avenue, Des Plaines, IL 60018. The price is $10.

SMC gets military order for PCB testers

Scientific Machines Corporation has been selected by E-Systems to provide board and module automatic test equipment to support a recently awarded Department of Defense contract. SMC will provide five of its Model 2070 board testers at a price of approximately $1.4 million.

SMC, based in Dallas, is wholly owned by Elfab Corporation. The company offers functional test equipment and software services for hybrid microcircuits and printed circuit boards.

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