Memory Technology


The sixth in a series of annual meetings, the 1975 symposium focused on memory testing with the added dimension of memory reliability, devoted a full day to the subject of microprocessors, presented new information on test techniques and test equipment, and included a presentation on linear operational amplifier testing using automatic equipment.

Non-members—$16.00  Members—$12.00


The problems associated with testing electronic devices and systems continue to grow in complexity. This year's Test Symposium—fifth in the series—explored test problems and strategies introduced by use of large-scale integrated semiconductor memory and logic devices.

Price: $16.00  Member Price: $12.00


Speakers at this conference included semiconductor memory device manufacturers. Emphasis was placed on having a balanced program, with papers covering device, array, board, and system level testing.

Price: $12.00  Member Price: $8.00


Topics: techniques for dynamically testing semiconductor memory chips, test problems in device manufacturing, problems encountered in testing bipolar semiconductor memories at the chip and card level, today's three test environments, and systems approach to device testing.

Price: $8.00  Member Price: $6.00


Reprinted articles in this volume give the reader an appreciation of the characteristics, limitations, and trends affecting semiconductor memories. Topics: introduction to semiconductor memories, bipolar transistor memories, MOS transistor memories, interconnections, packaging and economics, reliability, maintainability and testing system examples, serial memories, and content-addressable memories.

Price (Clothbound) $11.95  Member Price: $8.95  Member Price (Paperbound) $6.00


This one-day symposium covered memory cells and technology, memory module organizations, overall memory module considerations, and logic from memory.

Price: $5.00  Member Price: $4.00

Recent Additions to The Bookshelf


This symposium provides a continuing forum for the interchange of ideas, techniques, and applications in the field of simulation. Typical sessions deal with simulation in bio-medicine, aviation, and corporate management, as well as discussions of simulation languages.

Non-members—$20.00  Members—$15.00


The conference focused on products, services, and ideas which can be expected in the computer field within the next five years in the areas of hardware, software, firmware, technology, and applications.

Non-members—$20.00  Members—$15.00


These tutorial notes and references are intended to describe the continuing need for conducting management audits of computer operations. The costs of acquiring, installing, and operating a computer represent only the tip of the iceberg normally visible to management; managers must comprehend the influence the computer has on their ability to manage the whole organization. These subjects, as well as others, are covered in detail in 36 pages of original lecture notes and 436 pages of reprints of 31 articles.

Non-members—$16.00  Members—$12.00

1975 Conferences


Contains 37 papers from sessions on mathematical foundations of computer arithmetic, control and monitoring of precision, number systems, residue arithmetic and error control, arithmetic algorithms and their analysis, case studies of arithmetic processor design, ultra high speed arithmetic for special purpose, and parallelism and array logic.

Non-members—$20.00  Members—$15.00


Topics: programming languages, programming methodology, minicomputer systems and architecture, reliability and diagnosis, scheduling and memory management, sequencing and allocation problems, data bases, artificial intelligence, meta-theory, and program testing.

Non-members—$20.00  Members—$15.00


Formerly called the Annual Symposium on Switching and Automata Theory, this symposium featured sessions on analysis of algorithms, computational complexity, formal languages, mathematical theory of computation, switching and automata theory, theory of programming, compiling, and formal semantics.

Non-members—$20.00  Members—$15.00

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The symposium covers the theory and practice of computer structures and digital system organization. Topics include architecture evolution, hardware descriptive languages, multi-microprocessors, performance evaluation and modeling, applications, hardware/software system considerations, resource sharing and process coordination, recent results, networks, architectures to support software concepts, architectural features for performance enhancement, and secondary storage.

Non-members—$20.00  Members—$15.00

COMPUTER
Fourth Data Communications Symposium, October 7-9, 1975—180 pp.

The theme of this symposium was "Network Structures in an Evolving Operational Environment." The subjects covered were network topological design considerations, measurement and performance, communications software, network design considerations, security, computer communication standards, interface considerations, and legal and regulatory aspects. Non-members—$20.00 Members—$15.00

Hardbound—$23.50; member—$18.50


Conference record of the combined meeting of the 1975 IEEE Conference on Engineering in the Ocean Environment and the 11th Annual Meeting of the Marine Technology Society contains papers in 28 different categories. Included are computers, information systems, instrumentation, remote sensing, and all aspects of marine technology. Non-members—$28.00 Members—$21.00

Also Available Now: OCEAN 74 (hardbound only), non-members—$26.00, members, $19.50; OCEAN 73, non-members, $20.00, members, $15.00.


Includes sessions on microprogramming architecture, microprogram optimization, LSI microprogram sequencers, microprogrammed microprocessors, microprogram performance evaluation, emulation, and software, as well as one on the significance, benefits, and pitfalls of microprogramming. Non-members—$12.00 Members—$9.00


Software engineering is an emerging field for managing growth and change in data processing and real-time control of physical processes. This conference, which sought to present actual experiences of real gains in productivity and quality, included sessions on concepts, tools, project control, experience, and methodology. Non-members—$8.00 Members—$6.00

Hardbound—$11.50; members—$9.50


Intelligent terminals, displays, problem-oriented languages, idiot-proof systems—all help to make the computer easier to use. Trading off the dollar and performance penalties of these devices and techniques is one of the most important tasks facing the computer system designer today. Sessions at this conference addressed this important theme in terms of system software, hardware, and combinations of these disciplines. Non-members—$20.00 Members—$15.00

Hardbound—$23.50; members—$18.50


The course covers the basic principles of information protection and explains the separation of addressing and protection, the capability system, the access-control list system, protecting various types of objects, and protected objects and subsystems. Non-members—$12.00 Members—$9.00

Hardbound—$15.50; members—$12.50


This tutorial includes an introduction to the major ideas of structured programming, their theoretical and practical foundations, as well as detailed presentations of a major application program system and a single program stressing the top-down evolutionary character of the process. Non-members—$12.00 Members—$9.00

Hardbound—$15.50; members—$12.50


Papers presented in this symposium cover the areas of new CHDLs, compilation and simulation driven by CHDLs, CHDLs in design automations, and applications of CHDLs, as well as structured description of digital systems. In addition there are tutorial sessions dealing with analysis and synthesis of a system and a session presenting recent results and new concepts which are not yet fully developed. Non-members—$16.00 Members—$12.00


Contains 28 papers on structures in cellular automata, properties of maps in cellular space, L-systems and other biology-based theories, applied theory of cellular logic, and some problem-oriented theories. Also includes a classified bibliography on cellular automata theory focusing on recent Japanese references. Non-members—$18.00 Members—$12.00

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