
Allen has selected 26 reprints from this tutorial, provided a general introduction, and written overviews for each of the six subject areas: microprocessor software development facilities and tools, microcomputer programming languages, automated language processor development, microprocessor operating systems, microprocessor system testing, and 16-bit microprocessor software support. 

Non-members—$14.00 Members—$10.50


Distinctly different from Thurber's earlier tutorials, this volume contains more management and applications-oriented material than technical discussion. An extensive literature search yielded these 21 reprints, which, in the first section, provide insights into OAS capabilities and concepts, executive planning, household automation, factory industrial control, and future trends. The second section is devoted to networks in the OAS environment.

Non-members—$14.50 Members—$10.50


This symposium, cosponsored by the IEEE Computer Society Technical Committee on Computer Communications and the National Bureau of Standards, produced the 20 papers in this volume. The topics are the office of the future, distributed data bases, local networks, applications, protocols, and formal specifications for office requirements.

Non-members—$16.00 Members—$12.00


The 22 papers in these proceedings reflect the impact of the rapid development of microprocessors on software. Topics are topology and architectures for distributed networks, hardware and software design tools, impact of algorithm characteristics on network architectures, fault tolerance, distributed processing system implementation, and case studies in distributed operating systems.

Non-members—$20.00 Members—$15.00


The keynote address, two invited papers, and 60 contributed papers from this important conference appear in this digest. The 18 sessions cover design for testability, hardware pattern generation for memory and LSI testing, analog testing, memory testing, test economics, self-test techniques, production test problems, board test strategy, test and system software, simulation, verification, and pattern generation, IC failure modes, microprocessor testing, and quality and reliability testing.

Non-members—$30.00 Members—$22.50


Taken from the pages of Computer magazine, these 28 selections include short pieces from the Open Channel and a workshop report as well as tutorials and feature-length articles. Eight articles are on programming languages, 10 are on software creation, four are on data bases, and six are on applications.

Non-members—$12.00 Members—$9.00


One of the most significant areas in computing is explored in the 20 papers in these proceedings. Titles include "Towards a Fail-Safe Approach to Secure Data Bases," "A Model to Describe Protection Problems," "Secure Communications in the Presence of Pervasive Deceit," and "Multi-tiered Approach to System Security." A panel session on verification of secure software systems is also included.

Non-members—$14.00 Members—$10.50

Recent publications...


This tutorial is a decision-making aid designed to help those responsible for purchasing an ECG computer system. It consists of pertinent articles from a variety of journals and a substantial amount of new material. In 19 articles, the nature of computerized ECG systems, the available analytical programs, criteria for choosing a system, economic considerations, system impact on staff and patient care, and the limitations of computer systems are discussed.

Non-members—$25.00 Members—$18.75


This conference explored the pervasive impact of the computer on medicine. The more than 300 papers in these proceedings cover applications in hospital information systems, radiology, oncology, the medical laboratory, the pharmacy, nutrition, cardiology, intensive care, instrumentation, signal processing, simulation, occupational health, office practice, quality assurance, mental health, data management, development tools, networks, decision making, legal issues, administration, and the medical use of information technology.

Non-members—$68.00 Members—$51.00


This conference, cosponsored by the IEEE Computer Society and SPIE, is a forum for state-of-the-art research on optical information processing theory and techniques. Book I contains 38 papers with an emphasis on the problems of image acquisition via arrays of sensors and constrained iterative methods for constructing images from incomplete data.

Non-members—$30.00 Members—$22.50