



## THE BOOKSHELF

### Just out . . .

**353: Proceedings—Software Engineering Standards Application Workshop, August 18-20, 1981—151 pp.**

The focus at this San Francisco workshop was on the need for standards and standardization in software engineering. The 22 presentations included in this volume approach the problem with a variety of potential solutions, from quantitative methods to style guides and standard tools, and even include a proposal to impose standards on those who set the standards.

Non-members—\$16.00 Members—\$12.00

**369: Tutorial—Data-Base Management in the 1980's, edited by James A. Larson and Harvey A. Freeman, 1981—497 pp.**

This tutorial presents current material on what data-base management will be like in the 80's. For example, traditional navigational styles of data-manipulation commands—i.e., single-record-at-a-time—will be replaced by multiple-record-at-a-time, high-level styles. The 40 articles reprinted in this volume fall into such categories as tools for data-base access, data-base design, and hardware aids. Each of the topics includes an informative overview.

Non-members—\$25.00 Members—\$18.75

**371: Proceedings—Seventh International Conference on Very Large Data Bases, edited by Carlo Zaniolo and Claude Delobel, September 9-11, 1981—570 pp.**

Held in Cannes, France, this conference heard presentations from over 75 participants on such topics as data modeling, concurrency control, data compression, and data dictionaries and security. More than 50 papers on these and other subjects of current interest are included in these proceedings.

Non-Members—\$36.00 Members—\$27.00

### Recent publications . . .

**352: Proceedings—Conference on Pattern Recognition and Image Processing, August 3-5, 1981—625 pp.**

Sponsored by the IEEE Computer Society, this conference was held in Dallas, Texas. The 119 papers collected in these proceedings cover topics of interest to professionals in image processing and computer graphics—image enhancement and restoration, special-purpose hardware, texture analysis, map data processing, image encoding and approximation, time-varying imagery, and more.

Non-members—\$40.00 Members—\$30.00

**370: Proceedings—2nd International Symposium on Computer-Aided Seismic Analysis and Discrimination, August 19-21, 1981—157 pp.**

This symposium, jointly sponsored by the IEEE Computer Society, the IEEE Acoustics, Speech, and Signal Processing Society, the IEEE Pattern Recognition Society, and the IEEE Geoscience and Remote Sensing Society, produced the 24 papers contained in this volume. The topics include migration and geophysical inverse techniques, pattern recognition, power spectrum analysis, multiple sensor data analysis, and digital filtering.

Non-members—\$16.00 Members—\$12.00

**350: Proceedings—11th Annual International Symposium on Fault-Tolerant Computing, June 24-26, 1981—290 pp.**

Over 60 papers are presented in these proceedings of the symposium sponsored by the IEEE Computer Society Fault-Tolerant Technical Committee in cooperation with the Test Technology Technical Committee, and FTC members from IBM Yorktown Heights, and Poughkeepsie, New York. The wide range of topics covered includes status reports on working fault-tolerant systems.

Non-members—\$25.00 Members—\$18.75

**366: Tutorial—The Security of Data in Networks, edited by Donald W. Davies, 1981—242 pp.**

This tutorial examines the major advances since 1976 in the application of cryptography to data security. Divided into two principal themes—ciphers and the application of the "Data Encryption Standard" to computer communication, and public key cryptosystems and their application—this collection of 24 papers is preceded by an introduction providing an overview of individual, corporate, and national data-security concerns.

Non-Members—\$20.00 Members—\$15.00

**351: Proceedings—Symposium on Reliability in Distributed Software and Data Base Systems, July 21-22, 1981—205 pp.**

Jointly sponsored by the IEEE Computer Society, the ACM, and the University of Pittsburgh, this symposium focused on the continuity of operations in real-time systems. The 30 papers presented in these proceedings cover a variety of topics including concurrency control, language constructs, system performance, synchronization models, and research issues.

Non-members—\$20.00 Members—\$15.00

**346: Proceedings—8th Annual Symposium on Computer Architecture, May 12-14, 1981—528 pp.**

Over 35 papers by international authors, including six invited papers, are presented in these proceedings of the symposium cosponsored by the IEEE Computer Society and ACM. General topic divisions include performance analysis, VLSI applications, parallel processing, data flow machines, interconnection, and data-base management.

Non-members—\$28.00 Members—\$21.00

**368: Tutorial—Local Computer Networks, Second Edition, edited by Kenneth J. Thurber and Harvey A. Freeman, March 1981—371 pp.**

Forty reprints in this tutorial lead up to an entirely new section on example LCN products. Thirty-eight of these papers are divided into sections by LCN type in both distributed processing and system enhancement contexts. Additionally, the text includes two introductory papers and an editorial overview for each of the sections.

Non-members—\$20.00 Members—\$15.00

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