Elements of System Theory
by P. FAURRE and M. DEPEYROT.
1976 xii + 292 pages
Price: US $24.95/Dfl. 65.00

This textbook provides a concise, rigorous and up-to-date introduction to the theory of dynamical system and is intended to prepare the upper-level student for work with advanced and specialized texts. Although written in an applied mathematical style with precise statements and proofs, it does not demand any advanced mathematical background and is illustrated with many examples and exercises.


Minicomputer Software
edited by J. R. BELL, and C. G. BELL, Digital Equipment Corporation, U.S.A.
1976. xiv + 334 pages.
Price: US $27.50/Dfl. 75.00

Minicomputers are the most rapidly proliferating types of computing equipment and minicomputer software is the key to success in applying minicomputers. This book contains the proceedings of the first IFIP working conference to focus on this increasingly important subject. Eight papers, by leading experts, provide a wealth of information on the design and application of minicomputer software while in-depth panel discussions offer a stimulating interchange of viewpoints and insights by teachers, users and software designers. Each section of the book is self-contained so the reader may concentrate on those parts of direct interest and value to himself.

Modelling and Performance Evaluation of Computer Systems
edited by E. GELENBE and H. BEILNER.
1977 x + 490 pages
Price: US $39.00/Dfl. 95.00

A meeting sponsored by EURATOM-CETIS and held in Varese, Italy on 4-6 October, 1976 attracted leading experts in the field of computer modelling and performance evaluation, and out of their contributions to this conference grew a collection of studies, reports and papers of great practical value to the EDP practitioner, and of prime importance to the theoretician. Significantly broader in scope than the previously published preprints, this volume treats such problems as memory management strategies, task sequencing, queuing policies in multi-processor computers, programmable hardware monitors and performance evaluation of batch-time sharing computer systems.

CAD Systems
edited by JOHN J. ALLAN III, The University of Texas at Austin.
1977 xiv + 458 pages
Price: US $28.00/Dfl. 85.00

CAD systems have such a great potential for economic and creative impact, that they have become a subject of study themselves in the last few years. New developments in command languages, artificial intelligence, data structures, inexpensive hardware, and executive systems organization have not been previously examined in their own right. Existing literature that is not oriented to a single topic, address systems by discussing applications. This book presents the principles of many of the fundamental aspects of CAD systems. It encompasses the fundamentals of CAD systems.

It is organized into five sections: I - Executive Systems, II - Command Languages, III - Data Structures, IV - Hardware, and V — General Overview.

The conference itself, and these Proceedings, have been conceived and organized to present to CAD professionals around the world the first comprehensive analysis of CAD system fundamentals. This book serves as a text for professors, a reference for planners, and a guide for CAD professionals.

Informal Introduction to ALGOL 68
Revised Edition
by C. H. LINDSEY and S. G. VAN DER MEULEN.
1977 370 pages
Price: US $28.75/Dfl. 70.00
Paperback price: US $14.50/Dfl. 35.00

This completely revised edition of the Informal Introduction is based on the Revised Report of the Algorithmic Language ALGOL 68.

The language ALGOL 68 was designed by an IFIP Working Group and formally defined in a Report in 1969. Since that time the language, in whole or in part, has been implemented on a variety of computers and substantial experience has been gained by its use. One leading computer manufacturer has released an implementation in virtually complete agreement with the current official definition, and it should only be a matter of time before others follow. The experience of implementation and use lead to many proposals for changes to the language, which are now incorporated in the Revised Report - the official, rigorous and final definition of the machine independent programming language ALGOL 68.

This new edition should prove an indispensable tool for all users of ALGOL 68; it could also serve as a text in courses on advanced machine independent programming languages, as well as a valuable reference source.