IEEE publications bulletin

This Bulletin is the official announcement vehicle for IEEE publications, and information and educational services. Its purpose is to list as they become available all conference records, standards, special issues of Transactions and Journals, and other nonperiodic publications that may be purchased from IEEE Service Center.

Conference Publications

The publications listed below have become available since the last issue of this bulletin and, except as noted, were sent automatically to present subscribers to the appropriate option of the IEEE Open Order Plan (OOP). 1978 Conferences are identified by appropriate OOP sub-option codes. For completeness, the listing includes special issues or sections of IEEE periodicals that are devoted to IEEE conferences, as well as Conference Publications in the strict sense. Out-of-Stock items may be found in the Engineering Societies Library in New York City and in all libraries that subscribe to OOP.

Acoustics, Speech and Signal Processing (ICASSP), 3rd IEEE International Conference on, held Apr 10-12, 1978, in Tulsa, OK; sponsored by IEEE ASSP. Conf. Record 847p. LC 76-26361 $36.00 78CH11285-6 ASSP OOP 1A

Sessions on: Electroacoustics and noise measurement; speech processing; signal processing; distortion in audio amplifiers; signal processing methods for ecological systems; processing of seismic and ultrasonic signals.


Scope: The broad range and depth of the forty-three technical sessions and approximately 230 papers cover the advances in aerospace and electronics technologies.


Sessions on: Cardiovascular system; biomechanics; computer applications in medicine; artificial organs; ultrasonic imaging and signal processing; biomedical engineering education; biomedical imaging; bioelectric phenomena; biomaterials; biomedical instrumentation; modeling and simulation; sports medicine.

Cement Industry Technical Conference, 19th IEEE (CIT), held May 16-19, 1977 in Omaha, NB; sponsored by IEEE IA and IEEE Nebraska Section. Conf. Record Approx. 420p. LC 75-28930 $40.00 77CH11200-5 1A

Sessions on: Drive systems; general practices and process equipment; automation; power distribution; maintenance and safety.

Circuits, Systems and Computers, 11th Asilomar Conference on, held Nov 7-9, 1977 in Pacific Grove, CA; sponsored by University of Santa Clara, Naval Postgraduate School, IEEE San Francisco Section, et al. Conf. Record 492p. LC 78-51637 $25.00 77CH13151-5 C/CAS

Coverage: Circuit theory and design, communication and control systems, computer systems, computer aided design, image processing, digital and analog filtering, topological applications, energy and socioeconomic systems, microwave circuits.

College Curriculum in Computer Science, Engineering and Data Processing—The 5th Joint College Curricula Workshop in Computer Science, Engineering and Data Processing (announced in error as 4th Symposium in the Introduction), held Feb 2-3, 1978 in Orlando, FL; sponsored by IEEE C. Proceedings 138p. $16.00 78CH13110-0 C OOP 1E

Sessions on: Micros and minis; logic and organization; introduction to computing; courses in systems analysis and design; software design techniques; computer aided instruction; new techniques using Fortran; new curriculum concepts in computing; computers in engineering education.

Computer Architecture, 5th Symposium on, held Apr 3-5, 1978 in Palo Alto, CA; sponsored by IEEE C and ACM. Proceedings 256p. LC 79-91290 $20.00 78CH1284-9 C OOP 1E

Coverage: Current trends in special purpose processors; data base architectures; language-oriented architectures; algorithms and analysis; reliability.

Computer Science and Engineering Curricula, 4th Workshop, held Jun 6-7, 1977 in Williamsburg, VA; sponsored by IEEE C. Proceedings 149p. $12.00 EHO1263. (Not distributed under OOP)

Coverage: Curricula implementations which bring hardware and software closer together and optimize the use of microprocessors for CSE education; recent advances in software engineering; the challenge of data base and information systems education; the role of the computer in our social environment.


Coverage: This set of reprinted papers and the associated tutorial material provide an introduction and overview to current thinking and the state-of-the-art relating to the design and implementation of computer security and integrity safeguards.

Computer Society International Conference, 16th IEEE (COM- \ CON SPRING '78), held Feb 28-Mar 3, 1978 in San Francisco, CA; sponsored by IEEE C. Digest of Papers—Computer Technology: Status, Limits, Alternatives. 367p. LC 76-17667 $20.00 78CH1328-4 C OOP 1E

Scope: Microprogramming; systems design languages; simulation; scientific computations; semiconductor technology; personal computing; architecture; testing and business machines.

Special Issues

The special issues listed below have become available since the last issue of this Bulletin. Special issues devoted entirely to conferences are listed in the Conference Publications section.

**Digital Signal Processing; IEEE Transactions on Communications**
Vol. COM-26 No. 5 May 1978 $10.00 JH42960
*Coverage:* Processing of data for voiceband transmission; processing of signals for digital radio transmission; processing of visual signals; transswitchers, special terminals and techniques; TDM/FDM transmultiplexers.

**Electromagnetic Measurement Science; Proceedings of the IEEE**
Vol. 66 No. 4 Apr 1978 $10.00 JH41970
*Coverage:* Broad survey review/tutorial papers in electromagnetic measurements techniques, concepts, and applications; microwave measurements; interactive computer in measurement systems; measurements involving newer science and technology; problems in measurements of fields and antennas.

**Fine Line Device Fabrication; (special section, p. 402-434) IEEE Transactions on Electron Devices**
Vol. ED-25 No. 4 Apr 1978 $10.00 JH43174
*Coverage:* Descriptions of the successful fabrication of fine line devices using advanced lithographic techniques; pattern generation techniques from the resist processing point of view; the process of examining and analyzing the completed device.

**Hybrid Technology; IEEE Transactions on Manufacturing Technology**
Vol. MFT-6 No. 4 $10.00 JH40634
*Scope:* Role and cost considerations of hybrid integrated circuits; dialog between a design engineer and a hybrid products engineer.

**IEEE Standards**


IEEE Std 592-1977 IEEE Standard for Exposed Semiconducting Shields on Premolded High Voltage Cable Joints and Separable Insulated Connectors; Nov 29, 1977. 7p. $4.00 SH06916

**Image Bandwidth Compression; IEEE Transactions on Communications**
Vol. COM-25 No. 11 Nov 1977 $10.00 JH9006
*Coverage:* Psychovisual properties of human vision and related coding techniques; adaptive algorithms for coding images; interframe coding of TV; color coding TV and color images; facsimile coding.

**Large-Scale Systems and Decentralized Control; IEEE Transactions on Automatic Control**
Vol. AC-23 No. 2 Apr 1978 $10.00 JH42259
*Scope:* State-of-the-art of theoretical and applied research in the field of large-scale system theory and decentralized control.

**Microprocessor Application; Proceedings of the IEEE Vol. 66 No. 2 Feb 1978 $10.00 JH41954**
*Coverage:* Applications having a direct impact on the consumer: personal computing, programmable video games, automotive and biomedical applications; instrumentation; communications and control; the uses of integer arithmetic in microprocessor environments.

*Coverage:* Overviews and current samplings of major technical activity in optoelectronics: input/output (imaging and display); optical communications technology (fiber-optics components and circuits); signal processing and transducers (infrared arrays, optical isolators, and new circuits utilizing these functions).

**IEEE Press**

*Contents:* Basic Theory (Linear and Nonlinear); Acquisition; Threshold; Stability; Frequency Demodulation and Detection; Tracking; Cycle Slipping and Loss of Lock; Phase-Locked Oscillators; Operation and Performance in the Presence of Noise; AGC, AFC, and APC Circuits and Systems; Digital Phase-Locked Loop; Applications and Miscellaneous. A total of 37 reprinted papers.

**Supplementary Information**

*Out-of-Stock Publications:* Xerox or microfilm copies of most out-of-stock publications may be obtained from the Engineering Societies Library, 345 East 47th Street, New York, N.Y. 10017; the Library will supply price information on request. Most IEEE Journal issues for 1975 and earlier years are available from Walter J. Johnson, Inc., 111 Fifth Avenue, New York, N.Y. 10003.

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*Price information.* All prices listed in this Bulletin are nonmember prices. If you are an IEEE member, please consult listings in *IEEE Spectrum* for the discounted prices to which you are entitled, and mention your member number when ordering.

*Additional Copies of this Bulletin* are available, at your request, for circulation to technical personnel in your organization.

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