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 Order Plan (OOP). 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 Engineers Societies Library in New York City and in all libraries that subscribe to OOP.

Advanced Techniques in Failure Analysis Symposium (ATFA-77), held Sep 27-29, 1977 in Los Angeles, CA; sponsored by IEEE Region 6, IEEE Los Angeles Council and IEMS. Proceedings 345p. $24.00 7CH1248-4 REG6 Coverage: New methods of determining the cause(s) of discrepancies or failures of various types of equipment, parts and materials, and processes used to manufacture or produce products.


AUTOTESTCON '77 (formerly Automatic Support Systems for Advanced Maintainability, ASSC), held Nov 2-4, 1977 in Hyannis, MA; sponsored by IEEE AES, IEEE IM and IEEE Boston Section. Conf. Record 284p. LC 73-84532 $20.00 77CH1274-9 AES Coverage: Computer-controlled test systems and techniques in the design of hardware and software applicable to manufacturing and maintenance testing.

Computer Application in Medical Care, 1st Symposium on, held Oct 3-5, 1977 in Washington, DC; sponsored by Medical College of Virginia, George Washington Univ. Medical Center, IEEE C., et al. Proceedings 133p. $12.00 7CH1252-A-C Coverage: Monitoring and interpretation of clinical results; artificial intelligence in medicine; advances in hardware and software systems.


Computer Science, 18th Symposium on Foundations of, (formerly Symposium on Switching and Automata Theory) held Oct 31-Nov 2, 1977 in Providence, RI; sponsored by IEEE C and ACM. Conference Record 269p. $20.00 7CH1278-1 C Coverage: Analysis of algorithms, computational complexity, formal languages, mathematical theory of computation, switching, automata and programming theory, compiling, and formal semantics.

Computer Software and Applications Conference (COMPSCAC 77), 1st IEEE Computer Society, held Nov 8-11, 1977 in Chicago, IL; sponsored by IEEE C. Proceedings 834p. $25.00 7CH1291-4 C Coverage: Software generation methodology, transportable software, programming languages, information processing algorithms, data bases and computer education.

Consumer Electronics, 18th Chicago Spring Conference on, held Jun 6-7, 1977 in Chicago, IL; sponsored by IEEE BCECS and IEEE Chicago Section. IEEE Transactions on Consumer Electronics Vol. CE-23 Nos. 3 and 4 Aug and Nov 77 $10.00 each JH39768 and JH39776 Scope: Traditional and new areas of consumer electronics, such as digital techniques, video games and audio.

Cybernetics and Society, 7th International Conference on, held Sep 19-21, 1977 in Washington, DC; sponsored by IEEE SMC. Proceedings 778p. LC 75-28733 $32.00 7CH1259-1 SMC Coverage: Societal systems, man-machine systems, systems science, biomedical systems and biocybernetics, pattern recognition and artificial intelligence. Contains two new conventional sessions: scientific studies of acupuncture and research in psychoenergetics.

Data Communications Symposium, 5th, held Sep 27-29, 1977 in Snowbird, UT; sponsored by ACM, IEEE C and IEEE COM. Proceedings—The Path Toward Widespread Use of Networks. Approx. 176p. $20.00 7CH1260-9 C Coverage: Wide range of topics; fibre optics, cable TV, mobile radio, product safety, electronic components, word processing.

Decision and Control, 8th IEEE Conference on, including the 16th Symposium on Adaptive Processes and a Special Symposium on Fuzzy Set Theory and Applications, held Dec 7-9, 1977 in New Orleans, LA; sponsored by IEEE CS. Proceedings 2v. 1449p. $30.00 7CH1269-0 C Coverage: All aspects of the theory and application of systems involving decision, control and adaptation.


Electromagnetic Compatibility, IEEE 19th International Symposium on, held Aug 2-4, 1977 in Seattle, WA; sponsored by IEEE EMC. Conference Record 487p. LC 78-15514 $25.00 7CH1231-0 EMC (1976 Symp., Oct 76 bulletin, should be corrected to read 18th Int. Symp.) Coverage: EMC problems and solutions confronting the consumer, the US DOD and industrial interests.

Electron Devices Meeting, 1977 International, held Dec 5-7, 1977 in Washington, DC; sponsored by IEEE ED. Technical Digest 603p. LC 78-20188 $20.00 7CH1275-7 ED Coverage: Electron devices in medicine; microwave tubes; LSI and VLSI research in Japan; solar cells; device technology and integrated circuits.

Scope: Significant papers in microelectronics, from production processes to applications and environmental testing.


Sessions on: Satellite and computer communications; microprocessors; government, radar-and sonar systems and technology; communications technology.

Electrotechnics (EUROCON 77), European Conference on, held May 5-7, 1977 in Venice; sponsored by IEEE Region 8 and EUREL. Proceedings on Communications 715 p. $50.00 77CH1257-5 Reg 8

Coverage: Communications in large power systems and medicine; interaction between communications and computers; communications in developing countries.


Scope: Update on the advances occurring in the development of both traditional and innovative energy conversion systems.

Energy Management Seminar see Industry Applications Society Annual Meeting.

Engineering Management Conference, 25th Joint, held Oct 31-Nov 1, 1977 in Cincinnati, OH; sponsored by AIHE, IEEE EM, ASCE, etc. (Conf. Record—Engineering Management: The Key to Productivity. 94 p. LC 74-99882-2 $10.00 77CH1293-0 EM

Coverage: Improvement, measurement, skills and tools for productivity.

Industry Applications Society, 10th and 11th Meetings of the IEEE, Energy Management Seminar, held Oct 12, 1976 in Chicago, IL and Oct 4, 1977 in Los Angeles, CA; sponsored by IEEE IA. Proceedings 56 p. $10.00 77CH1276-5 IA

Coverage: Proceedings includes papers presented at both seminars. Electrical engineers' role in industrial plant energy management.

Industry Applications Society, 12th Meeting of the IEEE, held Oct 2-6, 1977 in Los Angeles, CA; sponsored by the IEEE IA and IEEE Los Angeles Council. Conference Record 1181 p. LC 79-4444 $36.00 77CH1246-8 IA

Coverage: Metal, petroleum, chemical, glass, packaging, textile, rubber, plastics and mining industries; land transportation; power systems; rotating machinery; static power converters; energy; electrostatic processes; industrial drives and land transportation.

Information Theory, 1977 IEEE International Symposium on, held Oct. 10-14, 1977 in Itaucu, NY; sponsored by IEEE IT. Abstracts of Papers 143 p. LC 79-17338 38.00 77CH1277-3 IT

Scope: Theoretical and experimental aspects of information transmission, processing, and utilization.


Coverage: Laser devices, operating principles; applications in laser fusion, home entertainment, medical treatment, communications, measurement, isotope separation, and material processing.

Microprogramming (MICRO 10), 10th Workshop on, held Oct 5-7, 1977 in Niagara Falls, NY; sponsored by ACM and IEEE C. Proceedings 135 p. $12.00 77CH1266-6 C

Coverage: Broad perspective on microprogramming; recent history, teaching applications; bit slice microprocessors, firmware and architecture.


Sessions on: Radiation effects; hardiness assurance and process controls; circuit and systems hardening techniques; electromagnetic pulse effects; radiation transport; energy deposition and dosimetry; simulators.

Oceans '77 Conference, 3rd, held Oct 17-19, 1977 in Los Angeles, CA; sponsored by MTS and IEEE OEC. Conf. Record 2 v. (Approx. 1140p.) LC 74-76790 $35.00 77CH1272-4 OEC

Scope: All aspects of man's activity in the seas; sessions on law, public policy, education.

Parallel Processing, 1977 International Conference on, held Aug 23-26, 1977 in Belfaite, MI; sponsored by Wayne State Univ. and IEEE C. Proceedings 246 p. $20.00 77CH1253-4 C

Coverage: Systems, architectures, processors and theory.


Coverage: Inductor/transformer magnetics, solid state switching, analog and digital control circuitry and a wide variety of applications areas.


Coverage: Power plants—operation, noise measurement and control, security systems; hydropower development; econometric analysis; power generation technology forecast.


Semiconductor Test Symposium, 8th, held Oct. 25-27, 1977 in Cherry Hill, NJ; sponsored by IEEE C and IEEE Philadelphia Section. Digest of Papers—Memory and LSI. 198p. $20.00 77CH1261-7 C

Sessions on: Design for testability; microprocessor, distributed, memory, and board level testing; test strategies and software.

Simulation Conference, 9th Winter, held Dec 5-7, 1977 in Gaitersburg, MD; sponsored by IEEE SMC, SCS, NS NBS, et al. Proceedings 2 v. 880 p. $40.00 77CH1309-4 SMC

Sessions on: Fundamentals, recent advances and applications, languages, financial and corporate modeling.


Scope: Development, application and integration of large databases and database systems; system architecture, very high level hardware design methodologies and human interfaces.

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.
Analog Circuits: (10 of the 13 papers in this issue were presented at the 1977 Int. Solid-State Circuits Conf., see Apr 1977 bulletin for Digest of Technical Papers; IEEE Journal of Solid-State Circuits Vol. SC-12 No. 6 Dec 1977 $10.00 JH41269
Coverage: Circuits described are not analog in the classical sense, but rather analog sampled data.

Components; IEEE Transactions on Parts, Hybrids, and Packaging Vol. PHP-13 No. 4 Dec 1977 10.00 JH40998
Coverage: Fabrication, physics and characteristics of metal oxide varistors; semiconductor components; inductors; heat flow in integrated circuits and capacitors.

Copyright: IEEE Transactions on Professional Communication Vol. PC-20 No. 3 Nov 1977 $10.00 JH40949
Coverage: Copyright law—purpose, implications, interpretations, and opinions.

Electrotechnology in Japan Today; IEEE Spectrum Vol. 14 No. 9 Sep 1977 $8.00 JH37101
Coverage: Japanese electrotechnological achievements.

Engineering Technology Programs; IEEE Transactions on Education Vol. E-20 No. 4 Nov 1977 10.00 JH40655
Coverage: Undergraduate engineering technology programs, learning conditions, case studies, comparisons and career potentials.

Microprogramming; (special section, p. 1181-1257) IEEE Transactions on Computers Vol. C-26 No. 12 Dec 1977 10.00 JH39610
Coverage: Multiple-valued logic—most of the papers are based on presentations made at the 6th Intl. Symp. on Multiple-Valued Logic, 1976. See Jan 1977 bulletin.

NASA's Advanced Control Law Program for the F-11B Aircracht; (special section, p. 750-868) IEEE Transactions on Automatic Control AC-22 No. 5 Oct 1977 10.00 JH39263
Coverage: Synthesis of digital autopilot logic for adaptive stabilization of straight and level flight.

Propagation for Mobile Communications; IEEE Transactions on Vehicular Technology Vol. VT-26 No. 4 Nov 1977 10.00 JH41467
Coverage: Radio and radio wave propagation; mobile radio fading propagation (Britain, Scandanavia, NYC); antennas.

Semiconductor Logic and Memory; (special section, p. 438-536) IEEE Journal of Solid-State Circuits Vol. SC-12 No. 5 Oct 1977 10.00 JH41251
Scope: Papers span the full range, from application of conventional technologies to new innovations.

Telecommunications Circuit Switching; Proceedings of the IEEE Vol. 65 No. 9 Sep 1977 10.00 JH36988
Coverage: History, development, systems, software and teaching of telecommunication switch circuit switching.

IEEE Standards

ANSI/IEEE Std 316-1977 Separable Insulated Connectors for Power Distribution Systems Above 600V; Sep 30 1977 24p. $4.00 SH06593


IEEE Std 165-1977 Standard Definitions of Terms for Analog Computers; Aug 29, 1977 12p. $5.00 SH06494

IEEE Std 166-1977 Standard Definitions of Terms for Hybrid Computer Linkage Components; July 29, 1977 6p. $4.00 SH06502


IEEE Std 194-1977 Standard Pulse Terms and Definitions; July 26, 1977 23p. $7.00 SH11940


IEEE Std 252-1977 Test Procedure for Polyphase Induction Motors Having Liquids in the Magnetic Gap; Aug. 12, 1977 20p. $5.00 SH06528

IEEE Std 260-1977 Standard Symbol S1 for SI Units and for Certain Other Units of Measurement; (Revision of IEEE Std 260-1969) July 15, 1977 20p. $5.00 SH06588

IEEE Std 262B-1977 (Supplement to IEEE Std 262-1973, ANSI C57.12.90-1973) Trial-Use Standard Dielectric Test Requirements for Power Transformers for Operation on Effectively Grounded Systems 345kV and Above; Sep 1, 1977 15p. $5.00 SH06999

IEEE Std 264-1977 Standard for High-Power Wide-Band Transformers (100 Watts and Above); (Revision of IEEE Std 264-1968) Sep 30, 1977 27p. $6.00 SH06338

IEEE Std 304-1977 Test Procedure for Evaluation and Classification of Insulation Systems for Direct-Current Machines; (Revision of IEEE Std 304-1969) Sep 8, 1977 19p. $3.00 SH06536


IEEE Std 381-1977 Standard Criteria for Type Tests of Class IE Modules Used in Nuclear Power Generating Stations; Aug 29, 1977 27p. $6.50 SH06643


IEEE Std 566-1977 Recommended Practice for the Design of Displays and Control Facilities for Central Control Rooms of Nuclear Power Generating Stations; July 8, 1977 11p. $4.00 SH06270


IEEE Std 686-1977 Standard Radar Definitions; Nov 9, 1977 15p. $5.00 SH06320

IEEE Press


Analysis, and Value System Design; Structural Models; Simulation and Modeling; Decision making; Application of Systems Engineering Methodology to Energy; Application of Systems Engineering Methodology to Resource and Land Use; Application of Systems Engineering Methodology to Medicine and Health; Applications to Technology Forecasting and Assessment. A total of 38 reprinted papers.

Contents: Mechanical Filter Historical and Review Papers; Filter Synthesis; Channel Bank Filter Design; Low Frequency Mechanical Filters; Use of Multiple-Mode Resonators; Models and Circuit Element Descriptions; Crystal Filter Historical Overview; Analysis of Acoustically Coupled Systems; Crystal Filters Containing Acoustically Coupled Resonators; Manufacturing Techniques; Materials, Properties, and Acoustically Coupled Filters with Non-Quartz Materials; Nonlinear and Tolerance Effects in Acoustically Coupled Resonator Filters; Mechanical Filter Bibliography. A total of 49 reprinted papers.

Miscellaneous Publications

1976 Index to IEEE Publications, produced by IEEE Information Services. 1977 569p. $75.00 JH41905 Coverage: Index, containing over 75,000 entries, covers all technical items—papers, short communications, abstracts of conference presentations, and book reviews published in the 40 IEEE periodicals; all papers presented at the over 150 IEEE sponsored conferences; IEEE standards; miscellaneous publications; IEEE Press books.

STILL AVAILABLE: Product No. Price
1975 Index to IEEE Publications JH 36798 50.00
1974 Index to IEEE Publications JH 31401 35.00
1973 Index to IEEE Publications JH 26252 35.00

Energy Development III; IEEE Power Engineering Society Papers. 178p. $13.50 J7CH1215-3 PWR


Changes in IEEE Periodicals for 1977

Schedule change: IEEE Transactions on Professional Communication has changed its publication schedule for 1977 only to the following months: June, September, November, December

Increased frequency of publication: IEEE Transactions on Electrical Insulation has changed from quarterly to bi-monthly: February, April, June, August, October, December; IEEE Transactions on Software Engineering has changed from quarterly to bi-monthly: January, March, May, July, September, November.

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Backfiles: Date from 1884 through 1970 and include all periodicals of the IEEE's predecessor societies—The Institute of Radio Engineers and The American Institute of Electrical Engineers. Purchasers of the complete backfiles of all the IEEE Transactions (1951-1970) are entitled to sizable discounts on the sum of the individual Transactions prices.

Annual Updates: Include all IEEE periodicals published since January 1, 1971, on a yearly basis. Purchasers of all IEEE Transactions on microfilm for a single year receive sizable discounts under the total of the individual Transactions prices. They also receive a free copy of the annual combined INDEX TO IEEE PUBLICATIONS for that year.


Further Details: For complete details and price list, ask for catalog No. F-15 Rev. 1/76. Send your request to: IEEE Service Center, Microfilm Services, 445 Hoes Lane, Piscataway, N.J. 08854.

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 1964 and earlier years are available from Walter J. Johnson, Inc., 111 Fifth Avenue, New York, N.Y. 10003.

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