

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 Subscription (OOPS). 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 OOPS.

Antennas and Propagation Society (AP-S) International Symposium, 1977 IEEE, held Jun 20-22, 1977 in Stanford, CA; sponsored by IEEE AP. *Digest* 613p. LC 66-9399 \$20.00 77CH1217-9 AP

Automatic Control Conference, 1977 Joint (JACC), held Jun 22-24, 1977 in San Francisco, CA; sponsored by IEEE CS, AICHE, ASME, et al. *Proceedings* 2v. 1736p. LC 65-67249 \$60.00 77CH1220-3 CS

CATV Reliability, 2nd Conference on, held Feb 23-24, 1977 in Atlanta, GA; sponsored by IEEE BCCE, SCTE and IEEE Philadelphia Chapter. *Conf. Record* 62p. \$18.00 77CH1239-3 BCCE

Communications, 13th International Conference on (ICC), held Jun 12-15, 1977 in Chicago, IL; sponsored by IEEE CSCB and IEEE Chicago Section. *Conf. Record* 3v. 1040p. LC 64-23226 \$40.00 77CH1209-6 CSCB

Computer-Aided Seismic Analysis and Discrimination, International Symposium on, held Jun 9-10, 1977 in Falmouth, MA; sponsored by IEEE C and IEEE ASSP. *Proceedings* 122p. \$12.00 77CH1244-3 C

Computer Society International Conference, 14th IEEE (COMP-CON SPRING '77), held Feb 28-Mar 3, 1977 in San Francisco, CA; sponsored by IEEE C. *Digest of Papers: System Design — A Discipline in Transition*. 372p. LC 76-17667 \$20.00 77CH1165-0 C

Computer Society International Conference, 15th IEEE (COMP-CON FALL '77), held Sep 6-9, 1977 in Washington, DC; sponsored by IEEE C. *Digest of Papers: Micros, Minis, and Maxis—Technology Thrust vs. User Requirement*. 474p. LC 68-1628 \$20.00 77CH1258-3 C. See also Distributive Processing Tutorial listed below.

Design Automation Conference, 14th, held Jun 20-22, 1977 in New Orleans, LA; sponsored by IEEE C and ACM. *Proceedings* 507p. LC 74-30514 \$25.00 77CH1216-1 C

Device Research Conference, held Jun 27-29, 1977 in Ithaca, NY; Abstracts in *IEEE Transactions on Electron Devices* Vol. ED-24 No. 9 Sep 1977 \$10.00 JH40147

Distributive Processing Tutorial; Micros, Minis, and Maxis—Technology Thrust vs. User Requirements; Tutorial held at the Computer Society International Conference, 15th IEEE (COMP-CON FALL '77) on Sep 6-9, 1977 in Washington, DC. Approx. 500p. LC 77-84175 \$16.00 EH01271

Electric Process Heating in Industry, 13th IEEE Conference on, held May 2-4, 1977 in Louisville, KY; sponsored by IEEE IA and IEEE Louisville Section. *Conf. Record* 65p. \$12.00 77CH1241-9 IA

Electromagnetic Compatibility, 2nd Symposium and Technical Exhibition on, held Jun 28-30, 1977 in Montreux, Switzerland; sponsored by IEEE EMC, IEEE Region 8, URSI, et al. *Proceedings* 567p. \$36.00 77CH1224-5 EMC

Energy Conversion Engineering Conference, 12th Intersociety, held Aug 28-Sep 2, 1977 in Washington, DC; sponsored by IEEE ED, AICHE, ASME, et al. *Proceedings* 2v. 1738p. + 112p. of abstracts of 1974-1977 Conference Papers; Author and Subject Index. LC 77-84450 \$90.00 77CH1263-3 ENERGY

Fault-Tolerant Computing (FTCS), 7th International Conference on, held Jun 28-30, 1977 in Los Angeles, CA; sponsored by IEEE C. *Proceedings* 217p. LC 74-75968 \$20.00 77CH1223-7 C

IEEE Region 6 (Western USA) Conference, 1977, held May 25-27, 1977 in Portland, OR; sponsored by IEEE Region 6 and IEEE Portland Section. *Conf. Record — Electronics Serving Mankind*. 125p. LC 72-92043 \$16.00 77CH1206-2 Reg 6

Industrial Applications of Microprocessors (IECI '77), held Mar 21-23, 1977 in Philadelphia, PA; sponsored by IEEE IECI. Selected papers in *IEEE Transactions on Industrial Electronics and Control Instrumentation* Vol. IECI-24 No. 3 Aug 1977 \$10.00 JH40428. See Jul 1977 bulletin for Conf. Proceedings. (Not distributed under OOPS)

Industry Applications Society, 10th Meeting of the IEEE, held Sep 28-Oct 2, 1975 in Atlanta, GA; sponsored by IEEE IA Atlanta Section. Selected abstracts in *IEEE Transactions on Power Apparatus and Systems* Vol. PAS-96 No. 4 Jul/Aug 1977 \$10.00 JH40899. See Oct 1976 bulletin for Conf. Record. (Not distributed under OOPS)

Industry Applications Society, 11th Meeting of the IEEE, held Oct 11-14, 1976 in Chicago, IL; sponsored by IEEE IA Chicago-Calumet Section. Selected abstracts in *IEEE Transactions on Power Apparatus and Systems* Vol. PAS-96 No. 4 Jul/Aug 1977 \$10.00 JH40899. See Apr 1977 bulletin for Conf. Record. (Not distributed under OOPS)

Instrumentation in Aerospace Simulation Facilities (ICIASF), 7th IEEE International Congress on, held Sep 6-8, 1977 in Shrivensham, England; sponsored by IEEE AES. *Conf. Record* 208p. \$25.00 77CH1251-8 AES

Machine Processing of Remotely Sensed Data, 4th Symposium on, held Jun 21-23, 1977 in West Lafayette, IN; sponsored by IEEE C, IEEE GE, IEEE Central Indiana Section, et al. *Proceedings* 358p. LC 73-89454 \$25.00 77CH1218-7 MPRSD

Magnetic Thin Films, 7th International Colloquium on (ICMTF) title appears also as **International Colloquium on Magnetic Films, 7th, (ICMF)** held Apr 22-25, 1975 in Regensburg, FRG; sponsored by Magnetism Commission of IUPAP and ICMF OC. Conf. Record in *IEEE Transactions on Magnetics* Vol. MAG-12 No. 2 Mar 1976 \$10.00 **JH34751**

Magnetics Conference (INTERMAG), 1977 International, held Jun 6-9, 1977 in Los Angeles, CA; sponsored by IEEE MAG. Papers in *IEEE Transactions on Magnetics* Vol. MAG-13 No. 5 Sep 1977 \$22.00 **JH40584**. See Jul 1977 bulletin for Conf. Digest.

Microwave Symposium, 1977 IEEE MTT-S International, held Jun 21-23, 1977 in San Diego, CA; sponsored by IEEE MTT. *Digest* 561p. **LC 66-9399** \$28.00 **77CH1219-5 MTT**

Multiple-Valued Logic, 7th International Symposium on, held May 24-27, 1977 in Charlotte, NC; sponsored by IEEE C, ACM, US DOD, et al. *Proceedings* 154p. \$20.00 **77CH1222-9 C**

Particle Accelerator Conference, 7th, Accelerator Engineering and Technology, held Mar 16-18, 1977 in Chicago, IL; sponsored by APS, NSF and US ERDA. *IEEE Transactions on Nuclear Science* Vol. NS-24 No. 3 Jun 1977 1011p. \$10.00 **JH40824**. (Not distributed under OOPS)

Pattern Recognition and Image Processing, 1977 IEEE Computer Society Conference on, held Jun 6-8, 1977 in Troy, NY; sponsored by IEEE C. *Proceedings* 399p. \$20.00 **77CH1208-9 C**

Pattern Recognition Applied to Oil Identification, Workshop on, held Nov. 11-12, 1976 in Coronado, CA; sponsored by Univ. of Connecticut, U.S. Coast Guard and IEEE C. *Proceedings* 173p. \$12.00 **76CH1247-6 C**

Photovoltaic Specialists Conference, 12th IEEE, held Nov. 15-18, 1976 in Baton Rouge, LA; sponsored by IEEE ED. *Conf. Record* 1004p. **LC 74-84504** \$44.00 **77CH1142-9 ED**

Power Engineering Society Discussions and Closures of Abstracted Papers from the Summer Meeting, 1976 IEEE, held Jul 18-23, 1976 in Portland, OR; sponsored by IEEE PE. Approx. 80p. **LC 75-35391** \$16.00 **76CH1136-1 PWR**

Power Engineering Society Winter Meeting, 1977 IEEE, held Jan 30 - Feb 4, 1977 in New York, NY; sponsored by IEEE PE. *Conf. Record* Approx. 1500p. **LC 76-4401** \$45.00 **77CH1190-8 PWR**. Abstracts in *IEEE Transactions on Power Apparatus and Systems* Vol. PAS-96 No. 4 Jul/Aug 1977 \$10.00 **JH40899**. Individual preprints are available, \$3.00 each, write for list of titles.

Pulsed Power Conference, 1st IEEE International, held Nov. 9-11, 1976 in Lubbock, TX; sponsored by IEEE Reg. 5, South Plains Section, US ERDA, ONR, et al. *Proceedings* Approx. 500p. \$40.00 **76CH1147-8 Reg 5**

Quantum Electronics, 9th International Conference on, held Jun 14-18, 1976 in Amsterdam, the Netherlands; sponsored by IEEE QE, AIP, UPS, et al. *Conf. Digest* 194p. \$16.00 **76CH1089-2 QEC**. Also available as *Optics Communications* Vol. 18 No. 1 Jul 1976

Reliability Criteria for System Dynamic Performance, Symposium on, presented at 1977 IEEE Power Engineering Society Winter Meeting, held Jan 30—Feb 4, 1977 in New York, NY; sponsored by IEEEPE. 42p. \$13.50 **77CH1221-1 PWR**. See also Power Engineering Society Winter Meeting, listed above.

Reliability Physics, 15th Symposium, held Apr 12-14, 1977 in Las Vegas, NV; sponsored by IEEE ED and IEEE R. *Proceedings* 283p. **LC 76-180194** \$16.00 **77CH1195-7 PHY**

Rural Electric Power Conference, 21st IEEE, held May 15-17, 1977 in Kansas City, MO; sponsored by IEEE IA and IEEE Kansas City Section. *Conf. Record* Approx. 100p. \$24.00 **77CH1202-1 IA**

Scientific Journals, 3rd IEEE Conference on, held May 2-4, 1977 in Reston, VA; sponsored by IEEE PC and ASJ. Papers in *IEEE Transactions on Professional Communication* Vol. PC-20 No. 2 Sep 1977 \$10.00 **JH40931**

Semiconductor Laser Conference, 5th International, held Sep 6-8, 1976 in Nemunosato, Japan; sponsored by IEEE QE and IEEE ED. Conf. Record in *IEEE Journal of Quantum Electronics* Vol. QE-13 No. 8 Aug 1977 \$10.00 **JH41111**

Semiconductor Power Converter Conference, 6th International, held Mar 28-31, 1977 in Lake Buena Vista, FL; sponsored by IEEE IA. *Conf. Record* 508p. **LC 77-73987** \$45.00 **77CH1183-3 IA**

Trends & Applications 1977: Computer Security and Integrity; Symposium, held May 19, 1977 in Gaithersburg, MD; sponsored by IEEE C, IEEE Washington Section, US NBS, et al. *Proceedings* 124p. \$12.00 **77CH1204-7 C**

Underground Transmission and Distribution Conference, 1976 IEEE, held Sep 27 - Oct 1, 1976 in Atlantic City, NJ; sponsored by IEEE PE. Supplement to Conf. Record, see Oct 1976 bulletin. 244p. **LC 73-142117** \$20.00 **76CH1119-7 PWR (Sup.)** Abstracts in *IEEE Transactions on Power Apparatus and Systems* Vol. PAS-96 No. 4 Jul/Aug 1977 \$10.00 **JH40899**. (Not distributed under OOPS)

Special Issues

Automated Instrumentation; (special section, p.197-220; 6 papers presented at AUTOTESTCON '76) *IEEE Transactions on Instrumentation and Measurement* Vol. IM-26 No. 3 Sep 1977 \$10.00 **JH40469**

Biological Signal Processing and Analysis; *Proceedings of the IEEE* Vol. 65 No. 5 May 1977 \$10.00 **JH36947**

Computer Arithmetic; *IEEE Transactions on Computers* Vol. C-26 No. 7 Jul 1977 \$10.00 **JH39560**

Displays and LED's; (half the papers in this issue were presented at 1976 Display Conference, see Apr 1977 bulletin for Conf. Record; one third of the papers were presented at 1976 IEEE Specialists Conference on the Technology of Electroluminescent Diodes, and the remainder submitted directly.) *IEEE Transactions on Electron Devices* Vol. ED-24 No. 7 Jul 1977 \$10.00 **JH40121**

Maritime Communications; Special Joint Issue published simultaneously as *IEEE Journal of Oceanic Engineering* Vol. OE-2 No. 3 Jul 1977 \$10.00 **JH40782** and *IEEE Transactions on Vehicular Technology* Vol. VT-26 No. 3 Aug 1977 \$10.00 **JH41459**

Multidimensional Systems; *Proceedings of the IEEE* Vol. 65 No. 6 Jun 1977 \$10.00 **JH36954**

Reliability Optimization-Mathematical Methods and Engineering Techniques; *IEEE Transactions on Reliability* Vol. R-26 No. 3 Aug 1977 \$10.00 **JH41186**

Semiconductor Materials and Processing Technology; *IEEE Journal of Solid-State Circuits* Vol. SC-12 No. 4 Aug 1977 \$10.00 **JH41244**

Spread Spectrum Communications; *IEEE Transactions on Communications* Vol. COM-25 No. 8 Aug 1977 \$10.00 **JH39974**

IEEE Standards

ANSI C50.10-1977 General Requirements for Synchronous Machines, American National Standard; Jun 17, 1977. 15p. \$5.00 **SH06783**

ANSI C50.13-1977 Requirements for Cylindrical-Rotor Synchronous Generators, American National Standard; (Revision of C50.13-1965) Jun 17, 1977. 15p. \$5.00 **SH06791**

ANSI C50.14-1977 Requirements for Combustion Gas Turbine Driven Cylindrical Rotor Synchronous Generators; Jun 10, 1977. 13p. \$5.00 **SH06809**

ANSI N322-1977 Inspection and Test Specifications for Direct and Indirect Reading Quartz Fiber Pocket Dosimeters; Jun 30, 1977. 11p. \$4.00 **SH06775**

IEEE Std 45-1977 Recommended Practice for Electric Installations on Shipboard; (Revision of IEEE Std 45-1971) Jun 30, 1977. 176p. \$14.00 **SH06825**

IEEE Std 95-1977 Recommended Practice for Insulation Testing of Large AC Rotating Machinery with High Direct Voltage; (Revision of IEEE Std 95-1962) Apr 29, 1977. 27p. \$5.00 **SH06080**

IEEE Std 125-1977 Recommended Practice for Preparation of Equipment Specifications for Speed-Governing of Hydraulic Turbines Intended to Drive Electric Generators; Apr 28, 1977. 23p. \$7.00 **SH06239**

IEEE Std 379-1977 Standard Application of the Single Failure Criterion to Nuclear Power Generating Station Class 1E Systems; Jun 30, 1977. 11p. \$5.00 **SH06817**

IEEE Std 384-1977 Standard Criteria for Independence of Class 1E Equipment and Circuits; Jun 30, 1977. 17p. \$6.00 **SH06841**

IEEE Std 387-1977 Standard Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations; (Revision of IEEE Std 387-1972); Jun 17, 1977. 16p. \$5.50 **SH06601**

IEEE Std 393-1977 Standard Test Procedures for Magnetic Codes; May 27, 1977. 48p. \$8.00 **SH06189**

IEEE Std 404-1977 Standard for Power Cable Joints; Mar 18, 1977. 11p. \$4.00 **SH06171**

IEEE Std 416A-1976 (ARINC Spec 416 Vol 1) ATLAS Syntax; Jul 20, 1977. 148p. **LC 77-80239** \$10.00 **SH06445**

IEEE Std 497-1977 (ANSI N41.26) Trial-Use Standard Criteria for Post Accident Monitoring Instrumentation for Nuclear Power Generating Stations; Jun 17, 1977. 11p. \$5.00 **SH06833**

IEEE Std 500-1977 Guide to the Collection and Presentation of Electrical, Electronic, and Sensing Component Reliability Data for Nuclear-Power Generating Stations; Jun 30, 1977. 543p. **LC 77-77870** \$41.50 **SH06684**

IEEE Std 505-1977 Standard Nomenclature for Generating Station Electric Power Systems; May 31, 1977. 11p. \$4.50 **SH06379**

IEEE Std 518-1977 Guide for the Installation of Electrical Equipment to Minimize Electrical Noise Inputs to Controllers from External Sources; Apr 29, 1977. 71p. \$10.00 **SH06296**

IEEE Std 590-1977 Cable Plowing Guide; Jun 23, 1977. 11p. \$5.00 **SH06734**

IEEE Std 645-1977 Test Procedures for High-Purity Germanium Detectors for Ionizing Radiation; (Supplement to IEEE Std 325-1971, Reaff. 1977) Jun 30, 1977. 11p. \$4.00 **SH06759**

IEEE Press

Computer Methods in Image Analysis, edited by J. K. Aggarwal, Univ. of Texas; Richard O. Duda, Stanford Research Institute; and

Azriel Rosenfeld, Univ. of Maryland. ©1977 466p. ISBN 0-87942-089-8 LC 76-50335 \$29.95 PC00901 A Book of Selected Reprints.

Contents: Correlation and Matching; Segmentation: Regions; Region Representation and Description; Segmentation: Boundaries; Boundary Representation and Description; Scene Analysis: The Blocks World; Scene Analysis: The Natural World; Bibliography. A total of 31 reprinted papers.

Electrical Noise: Fundamentals & Sources, edited by Madhu S. Gupta, Massachusetts Institute of Technology. ©1977 361p. ISBN 0-87942-085-5 LC 76-57816 \$26.95 PC00885 A Book of Selected Reprints.

Contents: Historical Development, Physical Theory of Noise, Noise in Electron Devices, Generation of Noise. Bibliographies. A total of 22 reprinted papers.

Miscellaneous Publications

Energy Development III; IEEE Power Engineering Society Papers. 178p. \$13.50 77CH1215-3 PWR

IEEE 1976 Student Papers, (winners of 1976 Student Paper Contest); 270p. \$16.00 TT01073. Abstracts in *IEEE Transactions on Aerospace and Electronics Systems* Vol. AES-13 No. 4 Jul 1977 \$10.00 JH3919-8.

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.

IEEE Journals on Microfilm comprise the world's major archive on modern electrical/electronics engineering.

IEEE Journals on Microfilm comprise an Information System that provides quick access—for viewing or printout—to the fundamental literature of modern electrical and electronics engineering. Both backfiles and updates are available on 16 mm or 35 mm positive or negative film, in cartridges or reels. All film is processed in accordance with archival standards as set by the National Bureau of Standards.

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 of 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.

Available in June, 1976: Microfilmed 1975 issues of all 38 IEEE periodicals.

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.

Open Order Plan Subscriptions: Automatic ordering of nonperiodical IEEE publications at 10% discount is available under OOPS (Open Order Plan Subscriptions). Please request brochure F-72 for details.

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.

How To Order

IEEE Service Center
Dept. PB
445 Hoes Lane
Piscataway, NJ 08854