◆ 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. The IEEE Publications Order Number is shown in boldface near the end of every entry.

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 and suboption of the IEEE Open Order Plan (OOP). All conference publications are identified by appropriate OOP suboption 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.

For your convenience, the LC catalog card number is printed inside IEEE publications; all pre-assigned LC numbers are announced in the entries below. The standard availability of LC cards for pre-assigned numbers is approximately six months after publication date.

Adaptive Processes, Symposium on *see* Decision and Control, 19th IEEE Conference on

Advanced Medical Systems, 12th Conference of the Society for *see* Computer Applications in Medical Care

Automatic Control Conference, 1980 Joint (JACC 80), held Aug. 13–15, 1980 in San Francisco, CA; sponsored by AIChE, ASME, IEEE, and ISA. *Proceedings,* 2 vols., approx. 1400 pp., LC 80-67739 (preassigned), $75.00   **80CH1580-0** (OOP 1A)

Coverage: Sixty technical sessions cover the application of control theory: decentralized, adaptive, nonlinear, linear, fluid power, and chemical process control; algorithms; energy use; architectures; applications to industry, aerospace, and medicine; stochastic systems; fuzzy logic and fuzzy control; linear, multivariable, large, delay and bilinear systems; computers; estimation, detection, and identification.

Autotestcon, 16th [IEEE International Automatic Testing Conference], held Nov. 2–5, 1980 in Washington, DC; sponsored by IEEE AES. *Conf. Record,* 334 pp., LC 80-82520 (preassigned), $30.00. **80CH1584-2** (OOP 1C)

Coverage: The maintenance and repair of complicated technology by automatic test equipment is discussed in the 18 technical sessions: system software and architecture; TPS (test program set) management and development; commercial airline avionics testing; ATE (automatic test equipment) hardware systems, management, requirements and standards, and bussing concepts; testability; digital and analog ATG (automatic test generation); management information systems; propulsion and modular ATE; human factor; shipboard electronics; new and unusual ATE applications.

Building a Professional Work Climate, 1979 Joint IEEE-Industry Conference on, held Nov. 28–30, 1979 in Atlanta, GA; sponsored by IEEE. *Conf. Record,* 100 pp., LC 80-82701 (preassigned), $17.00. **UH0140-4** (not distributed under OOP)

Coverage: IEEE members from industry, government, and other areas discuss the problem of professional utilization and development of IEEE members to promote their productivity and responsibility in the organizations that employ them.

Canadian Communications & Power Conference, [IEEE] 1980 (Conference Canadienne sur les communications et l'energie), held Oct. 15–17, 1980 in Montreal, Canada; sponsored by IEEE Region 7 (Canadian Region) and IEEE Montreal Section. *Conf. Digest,* 492 pp., LC 80-82425 (preassigned), $55.00. **80CH1583-4** (OOP 1H)

Coverage: Thirty-three technical sessions discuss apparatus; SF_6 (sulfur-hexafluoride); system planning, operation, control, and analysis; measuring techniques; reliability and system control; power and communication system relationships; rotating machines; overvoltage and insulation; corona and field effects; speech and image processing; satellite communication; radio ET (Ephemeris Time)/and modulation; network planning; fiber optics; digital processing; mobile radio telephone; simulation and modeling of communication systems.

Cement Industry Technical Conference, 22nd IEEE, held May 19–22, 1980 in Toronto, Ontario, Canada; sponsored by IEEE IA. *Conf. Record,* approx. 350 pp., LC 79-93129 (preassigned), $40.00. **80CH1527-1** (OOP 1B)

Coverage: Drives and related products; general practices; power generation and distribution; maintenance and safety; automation.

Circuits and Computers, 1st IEEE International Conference on (ICCC 80), held Oct. 1–3, 1980 in Port Chester, NY; sponsored by IEEE CAS, IEEE C, IEEE Region 1, and IEEE Mid-Hudson Section; edited by N.B. Guy Rabbat. *Proceedings,* 2 vols., 1202 pp., LC 79-90696 (preassigned), $50.00. **80CH1511-5** (OOP 1A and E)

Coverage: This conference discusses the problems of large-scale systems that are of interest to both the IEEE Circuits Systems Society and the IEEE Computer Society in 58 technical sessions: VLSI (very large scale integration); algorithms; memory circuits; decomposition; signal processing; packaging; CMOS-SOS (complementary metal oxide semiconductor–silicon on sapphire) devices; dynamical systems; computer aided design; lithography; graph theory; fault detection; networks; applications; design; software/hardware; optimization; Josephson technology; telecommunications; circuits; linear systems; testing.

Computer Applications in Medical Care, 4th Symposium on (SCAMC), held Nov. 2–5, 1980 in Washington, DC; sponsored by IEEE C, IEEE EMB, National Center for Health Services Research, et al.; edited by Joseph T. O'Neill. Held in conjunction with the **12th Conference of the Society for Advanced Medical Systems,** Nov. 1–2, 1980; sponsored by Society for Advanced Medical Systems (SAMS). *Proceedings,* 3 vols., 1945 pp. (SCAMC, Vols. 1-3, pp. 1-1662; SAMS Conference: Health Systems—The Next Decade, Vol. 3, pp. 1663-1945), $68.00. **80CH1570-1** (OOP 1E). NOTE: Disregard the LC and ISSN numbers printed in these volumes. They apply only to SCAMC; *not* when SCAMC and the SAMS Conference are published together.

Coverage: Sixty technical sessions from SCAMC discuss these topics: hospital information systems; radiology, oncology; laboratory, pharmacy, nutrition; cardiology, intensive; instrumentation, signal processing, simulation; occupational health, physician's office practice,

quality assurance; mental health; data management; system development tools, networks; medical decision making; legal issues, privacy, policy; management and administration; application of information technology. The SAMS Conference has 14 technical sessions that cover computers in Federal health care agencies; cost effectiveness and efficiency; effective computer applications; quality assurance; office practice; small computers; laboratory and pathology computing; imaging; mental health; area-wide health care; data bases.

Computer Packaging Technical Committee Workshop, 1980 IEEE Computer Society's, held May 28–30, 1980 in Split Rock Lodge, PA; sponsored by IEEE Computer Society Computer Packaging Technical Committee. Workshop report in *Computer*, Vol. 13, No. 11, Nov. 1980, pp. 100–104. $6.00. **JH50955** (not distributed under OOP)

Coverage: The focus of the 1980 Workshop was the impact of LSI on system packaging. Other discussion topics were device interconnection technology, and packaging tradeoffs for both cost-driven and performance-driven systems.

Computer Science, 21st [IEEE] Symposium on Foundations of, held Oct. 13–15, 1980 in Syracuse, NY; sponsored by IEEE C. *Conf. Record*, 421 pp., LC 79-93144 (preassigned), $30.00. **80CH1498-5** (OOP 1E)

Coverage: Forty-six technical papers cover topics such as algorithms; matrices; equations; languages; trees; data structures; VLSI; computation; cryptography; synchronization; program theory; process logic; etc.

Computer Society International Conference, 21st IEEE (COMPCON Fall 80), held Sept. 23–25, 1980 in Washington, D.C.; sponsored by IEEE C. *Proceedings–Distributed Computing*, 746 pp., LC 80-83217 (preassigned), $30.00. **80CH1598-2** (OOP 1E)

Coverage: The broad subject of distributed computing, emphasized in COMPCON Fall 80, accommodates the many topics featured in the 39 technical sessions: management; architecture; networks; systems; human factors; text processing; VLSI; design; schema-merging recomposition: dataflow; research; switching; software; synchronization; reliability; performance evaluation; ISO/ANSI reference model; applications; programming languages.

Computer Software & Applications Conference, IEEE Computer Society's 3rd International (COMPSAC 79), held Nov. 6–8, 1979 in Chicago, IL; sponsored by IEEE C. Special collection of papers in *IEEE Transactions on Software Engineering*, Vol. SE-6, No. 6, Nov., 1980. $10.00. **JH52522** (not distributed under OOP). The *Proceedings* (79CH1515-6) from this Conference was listed in the Jan. 1980 issue of the Bulletin.

Coverage: The seven selected papers from COMPSAC 79 discuss the discipline of software engineering and cover such issues as database design; program complexity; program test and maintenance criteria; and programming language design.

Computer Software & Applications Conference, IEEE Computer Society's 4th International (COMPSAC 80), held Oct. 27–31, 1980 in Chicago, IL; sponsored by IEEE C. *Proceedings*, 874 pp., LC 80-83424 (preassigned), $36.00. **80CH1607-1** (OOP 1F)

Coverage: Software production, development tools, and design techniques are the focus of the 43 technical sessions of COMPSAC 80 with special emphasis on such areas as software developmental environments, distributed design, and distributed data bases as well as software technology evaluation, cost effectiveness, and software productivity. Some session topics: image processing; software methodologies; requirements, maintenance, metrics, and tools; fault tolerance; simulation.

Consumer Electronics, 21st Chicago Spring Conference on, held June 18–19, 1980 in Chicago, IL; sponsored by IEEE BCCE and IEEE Chicago Section. Part I in *IEEE Transactions on Consumer Electronics*, Vol. CE-26, No. 3, Aug. 1980. $10.00. **JH51193.** Additional papers in same journal, Vol. CE-26, No. 4, Nov. 1980. $10.00. **JH51201** (not distributed under OOP)

Coverage: In 58 papers these general subjects are covered: automotive electronics; signal processing; TV tuners/tuner control; teletext; local

program sources; subscription TV; display; teletext/TV receiver; special radio; radio tuning.

Cybernetics and Society, [10th IEEE] International Conference on (ICCS 80), held Oct. 8–10, 1980 in Cambridge, MA; sponsored by IEEE SMC. *Proceedings*, 1140 pp., LC 74-170870, ISSN 0360-8913, $55.00. **80CH1555-2** (OOP 1F)

Coverage: Forty-eight technical sessions cover system dynamics, methodology, design, and effectiveness; pattern recognition; energy systems; modeling and simulation; artificial intelligence; human/computer interactions; microprocessors; nuclear waste; transportation; education; fuzzy sets; public systems and policy; computer-aided design/manufacture; health care systems; robotics.

Decision & Control, 19th IEEE Conference on, including the **Symposium on Adaptive Processes**, held Dec. 10–12, 1980 in Albuquerque, NM; sponsored by IEEE CS. *Proceedings*, 2 vols., 1254 pp., LC 79-640961, ISSN 0191-2216, $67.00. **80CH1563-6** (OOP 1A)

Coverage: The theory and practice of automatic control are covered in 42 technical sessions. Topics particularly emphasized include C³ (command, control, and communications) systems; applications to large space structures, energy systems, manufacturing, and signal processing; robust control theory; large-scale systems theory; adaptive algorithms. Some other topic areas: robots; nuclear power plants; Markovian and stochastic systems; algebraic structures; filtering; linear and nonlinear systems; decentralized control; adaptive control; parameter systems; microprocessors.

Device Research Conference, 38th IEEE, held June 23–25, 1980 in Ithaca, NY; sponsored by IEEE ED. Abstracts in *IEEE Transactions on Electron Devices*, Vol. ED-27, No. 11, Nov., 1980. $10.00. **JH51573** (not distributed under OOP)

Coverage: Twelve technical sessions cover small-geometry MOS devices; GaAs optoelectronics; silicon memory and punch-through devices; III–V photodetectors and microwave devices; fabrication and processing; long-wavelength sources; GaAs device processing technology and silicon fine-line devices and technology; silicon power devices and fabrication technology; beam processing; sensors and HgCdTe photodiodes.

Display Research Conference, 6th Biennial, held Oct. 21–23, 1980 in Cherry Hill, NJ; sponsored by IEEE ED, SID, and the Advisory Group on Electron Devices. *Conf. Record*, 188 pp., LC 79-91317 (preassigned), $20.00. **80CH1520-6** (OOP 1D)

Coverage: The continuing emhasis of this Conference is on developments in the basic aspects of displays, spanning materials, devices, and display systems disciplines. A large percentage of the 34 technical papers discuss liquid crystal displays and then concern themselves with plasma, electroluminescent, CRT (cathode ray tube) and electrophoretic displays. NOTE: A special joint issue on displays of the IEEE Transactions on Electron Devices and the Proceedings of the Society for Information Display is planned to appear in June, 1981 which will feature reviewed and edited versions of many conference papers plus other contributed papers.

Distributed Data Acquisition, Computing, and Control Symposium, [IEEE], held Dec. 3–5, 1980 in Miami Beach, FL; sponsored by IEEE C. *Conf. Record*, 212 pp., LC 80-81357 (preassigned), $20.00. **80CH1571-9** (OOP 1E)

Coverage: Distributed networks of many microprocessors are the major focus of this Symposium. Its six technical sessions cover these topics: topology and architectures; hardware and software design tools; algorithms; fault tolerance; distributed processing and operating systems.

Electrical/Electronics Conference and Exposition, 26th Cleveland (CECON 79), held June 5–7, 1979 in Cleveland, OH; sponsored by IEEE Reg. 2, IEEE Cleveland Section, Electronic Representatives Assoc., et al. *CECON Record*, 155 pp., no LC number (LC 77-93419 appearing on the verso of the title page is only for the 1978 Conference), $15.00. **79CH1395-3** (OOP 1H). Single-copy sales from: Safety Awareness Group, 11846 Dunham Rd., Northfield, Ohio 44067.

Coverage: Thirty-six papers cover a wide range of topics in the electrical, electronics industry such as design; communications; continuing education; power generation; fusion energy; medical electronics; microcomputers; manufacturing; reliability; etc.

Electromagnetic Compatibility, [22nd] IEEE International Symposium on, held Oct. 7–9, 1980 in Baltimore, MD; sponsored by IEEE EMC. *Conf. Record*, 407 pp., LC 78-15514 (serials entry), $40.00. **80CH1538-8** (OOP 1C)

Coverage: This Symposium, sponsored by the Electromagnetic Compatibility Society, also involved participation by the Sequency Union (SEQ) and Committee E of URSI (International Union of Radio Science). Eleven EMC sessions cover electromagnetic environment; analysis and modeling; antennas; spectrum management; test and measurement; standards, procedures, and criteria; shielding and impedance matching; power and control; lightning. Four SEQ sessions discuss sequency theory applications; digital logic and image processing; sensor processing; signal processing. A single URSI session concerns noise and interference.

Electronics, 4th European Conference on—EUROCON 80, held March 24–28, 1980 in Stuttgart, Germany; sponsored by EUREL, IEEE, and VDE. *Proceedings—From Electronics to Microelectronics*, 734 pp., $80.00. **80CH1552-9** (OOP 1H)

Coverage: Trends and applications in microelectronics are emphasized in the 26 technical sessions which cover these topics: technology; telecommunications and data processing; electrical power systems and controls; medical applications; other applications (radio, TV, appliances, automotive, etc.).

Electronics and Aerospace Systems Convention, IEEE (EASCON 80), held Sept. 29–Oct. 1, 1980 in Arlington, VA; sponsored by IEEE Washington Section and IEEE AES. *Record*, 554 pp., LC 73-159381, ISSN 0531-6863, $40.00. **80CH1578-4** (OOP 1C)

Coverage: Topics covered in the 37 technical sessions: WARC-79 (World Administrative Radio Conference); arrays; pattern recognition; microwave power; World Wide Military Command and Control Systems (WWMCCS); sonar; signal processing; satellites; crisis management; communications; super computers; very high speed circuits (VHSIC); tactical C³ (communications, command, and control); electronic warfare; lasers; software; sensors; fault-tolerant systems; IFF (Identification Friend or Foe) systems; radar; network protocols.

Energy Conversion Engineering Conference, 15th Intersociety, held Aug. 18–22, 1980 in Seattle, WA; sponsored by IEEE, AIAA, ANS, et al. *Proceedings*, 3 vols., 2669 pp. (1980 conference papers; abstracts from papers 1977–1979; and 1976–1980 Subject and Author Index), LC 80-68371, ISBN 0-915928-42-6, $195.00. **80CH1605-5** (OOP 1 C and D). NOTE: Both LC and ISBN numbers appear on the verso of the title page in Vols. 2 and 3 but not in Vol. 1.

Coverage: The theme of the 1980 Conference, "Energy to the 21st Century", reflects this meeting's dedication to exploring engineering aspects of advanced technology or nonconventional energy conversion systems and devices. Some of the topics covered in the 83 technical sessions include: fusion; aerospace power; batteries; biomass; conservation; fossil fuels; fuel cells; synfuels; geothermal energy; heat engines; hydrogen; solar thermal power; Stirling engines; thermionics; wind energy.

Engineering in Medicine and Biology, 33rd Conference on (ACEMB), held Sept. 30–Oct. 3, 1980 in Washington, DC; sponsored by AEMB (IEEE EMB, AIChE, ISA, et al.). *Proceedings*, Vol. 22, 228 pp., LC 61-24788, ISSN 0589-1019, $40.00. **80CH1614-7** (OOP 1F)

Coverage: Some topics explored by the 50 technical sessions and four short courses are: biomechanics; bioelectric signals; artificial organs; cardiodynamics; patient monitoring; biochemical processes; health monitoring; hemodynamics; radiation in medicine; devices for the disabled; respiration; rehabilitation engineering; computer applications; ultrasonics; biomaterials; biomedical transducers; modelling and simulation; cryobiology/microprocessors.

Engineering Management Conference, [2nd] IEEE, held Nov. 12–14, 1980 in Wakefield, MA; sponsored by IEEE EM. *Conf. Record*, 248 pp., LC 80-83224 (preassigned), $30.00. **80CH1603-0** (OOP 1F)

Coverage: Economic stimulation via technological innovation, theme of the 1980 Conference, is reflected in two interests emphasized in the 16 technical sessions: technology forecasting and technology transfer. Other topics include innovation; engineering manager's role; new management methods; new business in the economy; computer and quantitative techniques; planning; R&D resource allocation.

EUROCON *see* Electronics, 4th European Conference on

Fault-Tolerant Computing, 10th International Symposium on (FTCS-10), held Oct. 1–3, 1980 in Kyoto, Japan; sponsored by IEEE C and IECE. *Digest of Papers*, 381 pp., LC 79-613257 (LC 79-613275 is incorrect), $25.00. **80CH1604-8** (OOP 1E)

Coverage: Malfunctions in computers due to failures or faults in their components are the concern of fault tolerant computing systems. In 21 technical sessions the topics discussed include commercial systems; coding; correction of memory faults; design verification; operating systems and synchronization; software; LSI testing; test generation; probabilistic approaches; evaluation; self-checking; system level diagnosis; distributed system architectures; logic design; dedicated designs. NOTE: The number of the sessions in the Contents is misleading; The session labeled 11A is actually 1A; 11B is 1B; etc. The volume is *not* missing any sessions.

Fault-Tolerant VLSI Design, IEEE Computer Society Workshop on, held April 23–25, 1980 in Santa Monica, CA; sponsored by IEEE Computer Society's Technical Committee on Fault-Tolerant Computing. Report in *Computer*, Vol. 13, No. 12, Dec. 1980, pp. 51–53. $6.00. **JH50963** (not distributed under OOP)

Coverage: Four sessions were held on: background; opportunities; architecture and methodology; design for testability.

Frontiers in Education Conference, 10th, held Oct. 20–22, 1980 in Houston, TX; sponsored by IEEE E and ASEE. *Proceedings*, 566 pp., LC 79-640910, ISSN 0190-5848, $50.00. **80CH1615-4** (OOP 1F)

Coverage: The field of engineering education is explored in 26 technical sessions that deal with the broad subject areas of educational methods, educational technology, instructional materials, and professional development programs. Some specific session topics: selection procedures; individualized instruction; microprocessor impact; communication; education resources; computer-based education; engineer in society.

Frontiers of Engineering in Health Care; IEEE/Engineering in Medicine and Biology Society 2nd Conference, held Sept. 28–30, 1980 in Washington, D.C.; sponsored by IEEE EMB. *Proceedings*, 371 pp., LC 80-83216 (preassigned), $30.00. **80CH1589-1** (OOP 1F). Abstracts in *IEEE Transactions on Biomedical Engineering*, Vol. BME-27, No. 9, Sept. 1980. $10.00. **JH50716** (not distributed under OOP)

Coverage: Fifteen technical sessions discuss advances that already have or are expected to have significant influence on the design, use, and management of medical devices and systems. Topics are: bioelectric phenomena; microprocessors and instrumentation; computers; electronic aspects of artificial organs; medical telemetry; imaging; instrumentation; neuromuscular signal processing; mechanical circulatory-assist devices.

Industry Applications Society, 15th [IEEE] IAS Meeting, held Sept. 28–Oct. 3, 1980 in Cincinnati, OH; sponsored by IEEE IA and IEEE Cincinnati Section. *Conf. Record*, 2 vols., 1318 pp., LC 647500 (serials entry; accidentally not printed in the volume), $60.00. **80CH1575-0** (OOP 1B)

Coverage: Forty-five technical sessions cover nuclear waste; mining, textile, rubber and plastics, and steel industries; power systems technologies; 1981 National Electric Code and 70E Panel of 1979 NFPA; ac drives; microprocessors; inverters and converters; electrophotography; industrial controls; lightning technology; power conditioning; transportation systems; protection; heating; etc.

Live-Line Maintenance, 2nd [IEEE] International Conference on (ESMO-80), held Sept. 23–25, 1980 in Chicago, IL; sponsored by IEEE PE. *Conf. Record*, 168 pp., LC 80-83412 (preassigned), $30.00. **80CH1612-1** (OOP 1G)

Coverage: Conference discusses live-line maintenance as a method of improving service continuity. Specific topics covered include engineering; health effects; techniques; international practices; insulated aerial devices; live-line maintenance safety; laboratory lecture-demonstrations; testing of tools and equipment; field demonstrations.

Local Computer Networks, 5th Conference on, held Oct. 6–7, 1980 in Minneapolis, MN; sponsored by University of Minnesota Computer Center, IEEE C, and IEEE Twin Cities Chapter. *Proceedings*, 129 pp., LC 80-80474 (preassigned), $20.00. **80CH1542-0** (OOP 1E)

Coverage: Six sessions discuss these topics: office automation; network architecture; protocols; broadcast systems; future directions.

Nuclear and Space Radiation Effects, 17th IEEE Conference on, held July 15–18, 1980 in Ithaca, NY; sponsored by IEEE NPS and Cornell University. Proceedings in *IEEE Transactions on Nuclear Science*, Vol. NS-27, No. 6, Dec. 1980. 499 pp., $10.00. **JH52233** (not distributed under OOP)

Coverage: Nine technical sessions cover radiation effects on devices, circuits, and systems; physics and basic radiation effects in materials; dosimetry and radiation transport; spacecraft charging and space radiation effects; single-particle upset phenomena; electromagnetic pulse phenomena; hardened components; testing techniques and hardness assurance.

Oceans '80 Conference, held Sept. 8–10, 1980 in Seattle, WA; sponsored by IEEE Seattle Section and IEEE Council on Oceanic Engineering. *Conf. Record*, 553 pp., LC 80-81392 (preassigned), ISSN 0197-7385, $46.67. **80CH1572-7** (OOP 1C)

Coverage: In 21 technical sessions this conference provides an interdisciplinary approach to oceanic knowledge: instrumentation; ocean resources; waves, tides, and currents; arctic engineering; acoustics; navigation; undersea engineering and communications; submersibles; current measurement; marine weather systems; oil spills; machinery, equipment and systems; environment; Seasat project; cables.

Optical Computing Conference, 7th International, held April 8–11, 1980 in Washington, DC; sponsored by IEEE C and SPIE; edited by William T. Rhodes. *Proceedings*, 2 vols. (SPIE Vols. 231 and 232), 318 pp. (Vol. 231) and 232 pp. (Vol. 232), LC 80-50724 (preassigned), $60.00. **80CH1548-7** (OOP 1E)

Coverage: Presents state of the art research on optical information processing theory and techniques, in two volumes. Book I (SPIE Vol. 231) has five sessions covering radio astronomy; iterative methods for reconstructing images from incomplete data; pseudo optics—holography and inverse scattering; and tomography. Book II (SPIE Vol. 232) emphasizes new and developing methods of image acquisition and optical signal processing including polychromatic, time-integration, and numerical optical processing.

Parallel Processing, 9th International Conference on, held Aug. 26–29, 1980 in Harbor Springs, MI; sponsored by Ohio State University, IEEE C, and ACM. *Proceedings*, 349 pp., LC 79-640377, ISSN 0190-3918, $25.00. **80CH1569-3** (OOP 1E)

Coverage: Twelve technical sessions cover these topics: software and languages; architectures; interconnections; performance; resource control and allocation; distributed processing; numerical and non-numerical algorithms and applications; data base architecture and software.

Personal Computing to Aid the Handicapped, [1st] IEEE Computer Society Workshop on the Applications of, held April 2–3, 1980 in Laurel, MD; sponsored by IEEE Micro/Mini Technical Interest Council and the Johns Hopkins University Applied Physics Laboratory. *Proceedings*, a 1980 APL Report, 78 pp., $10.00. **80CH1596-6** (OOP 1E)

Coverage: Technologists, handicapped individuals, and academics along with representatives of government, industry, and institutions discuss personal computing for the handicapped in four technical sessions covering needs, technology, communications and education, and career paths.

Petroleum and Chemical Industry Conference, 27th [IEEE], held Sept. 8–10, 1980 in Houston, TX; sponsored by IEEE IA. *Record of Conf. Papers*, 258 pp., LC 73-641120 (serials entry), ISSN 0090-3507, $30.00. **80CH1549-5** (OOP 1B)

Coverage: Thirty-six papers from 12 technical sessions cover aspects of interest to the petroleum and chemical industry in the following areas: microcomputer/programmable controllers; National Electrical Safety Code; pipelines; submersible pumps; computerized demand control; cables; storage; etc.

Picture Data Description and Management, [2nd IEEE] Workshop on, held Aug. 27–28, 1980 in Asilomar, CA; sponsored by IEEE Computer Society Technical Committee on Machine Intelligence and Pattern Analysis. *Proceedings*, 305 pp., LC 79-92268 (preassigned), $25.00. **80CH1530-5** (OOP 1E)

Coverage: The storage and management of very large picture data bases and related applications is covered in 13 technical sessions emphasizing areas such as: image data and geographic information systems; picture data structures; picture query languages; pictorial data base; three-dimensional object representation; machine processing and human interaction; computer vision systems; picture processing algorithms; natural scenes interpretation; parallel processing.

Position Location and Navigation Symposium, IEEE [3rd] (PLANS 80), held Dec. 8–11, 1980 in Atlantic City, NJ; sponsored by IEEE AES. *Record*, 501 pp., $37.50. **80CH1597-4** (OOP 1C)

Coverage: Nine sessions with 69 papers discuss satellite, undersea, terrestrial-based radio, and self-contained navigation; time and frequency applied to navigation systems; integrated communications; civil navigation requirements and applications; navigation of space vehicles; mapping, charting, and geodesy.

Power Generation Conference, 1979 Joint, held Oct. 7–11, 1979 in Charlotte, NC; sponsored by ASME, IEEE PE, ASCE, and ANS. Abstracts in *IEEE Transactions on Power Apparatus and Systems*, Vol. PAS-99, No. 4, July/Aug. 1980. $10.00. **JH52316** (not distributed under OOP). The full text of papers (79CH1464-7) from this Conference will be available in the near future and will be announced in the Bulletin.

Coverage: Alternative fuels; current limiting; nuclear power generation; coal; solid state logic; power plants; gas turbines; station design and construction; batteries; decentralization; generator circuit breakers; hydroelectricity; fusion.

Product Liability Prevention Conference, 11th (PLP 80), held Sept. 22–24, 1980 in Washington, DC; sponsored by IEEE R, ASQC, ASSE, et al. *Proceedings*, 176 pp., LC 78-641548, ISSN 0162-2919, $30.00. **80CH1582-6** (OOP 1F)

Coverage: Product liability as it applies both to production and consumption is the concern of the 17 papers that discuss some of these topics: PLP information requirements; multinational corporations; management; consumer perceptions; quality certification; investigation and claims; Uniform Product Liability Act; ANSI/ASQC Guidelines for Quality Systems; machine guarding.

Pulse Power Modulator Symposium, 14th [IEEE], held June 3–5, 1980 in Orlando, FL; sponsored by IEEE ED, Advisory Group on Electron Devices, and Palisades Institute for Research Services, Inc. *IEEE Conf. Record*, 332 pp. (this volume has no LC number; LC 80-8193 printed in error in the volume), $36.00. **80CH1573-5** (OOP 1D)

Coverage: Two high-energy pulser technologies: repetition-rate pulse modulator (used in radar, lasers, industrial control) and high-energy pulsed power (used for nuclear effects simulation, particle acceleration, fusion) are represented in the 11 technical sessions. Some areas discussed include spark gaps; thyratrons; general switching; systems; components; modulators; Marx generators; magnetic insulation; power conditioning/regulation; kickers; accelerators.

Security and Privacy, 1980 [IEEE] Symposium on, held April 14–16, 1980 in Oakland, CA; sponsored by Technical Committee on Security and Privacy of IEEE C. *Proceedings*, 167 pp., LC 79-91749 (preassigned), $14.00. **80CH1522-2** (OOP 1E)

Coverage: This Symposium is concerned with data security and privacy in computer systems. Some specific topics addressed in the 20 papers include transborder data flow (TDF); security flow analysis; access control; cryptography; master key problem; protocols; architecture; software.

Subscriber Loops and Services, 4th International Symposium on (ISSLS 80), held Sept. 15–19, 1980 in Munich, Federal Republic of Germany; sponsored by NTG, IEEE COM, IEE, IECEJ and SEE. *Proceedings*, 232 pp., LC 81-81353 (preassigned), ISBN 3-8007-1184-3, ISSN 0341-0196, $60.00. **80CH1565-1** (OOP 1E)

Coverage: This meeting of telecommunication experts discussed local networks; switching and signaling; digital networks; network organization; new services; and applications, in 45 technical papers.

Test Conference, 11th [IEEE], held Nov. 11–13, 1980 in Philadelphia, PA; sponsored by IEEE C and IEEE Philadelphia Section. *Digest of Papers—Testing for the 80's*, 507 pp., LC 80-83501 (preassigned), $40.00. **80CH1608-9** (OOP 1E)

Coverage: Issues facing the testing community are discussed in 18 technical sessions on: design for testability; hardware pattern generation; analog, memory, microprocessor, and quality, reliability testing; economics; self-test techniques; production test problems; board testing; software; simulation, verification, and pattern generation; integrated circuit failure modes.

Very Large Data Bases, 6th International Conference on, held Oct. 1–3, 1980 in Montreal, Canada; sponsored by IEEE C, ACM, and the Canadian Information Processing Society. *Proceedings*, 435 pp., LC 79-93333 (preassigned), $30.00. **80CH1534-7** (OOP 1E). Also available through ACM as order no. 471800.

Coverage: The goal of this Conference, reflected in the 43 papers in its Proceedings, is to "identify and encourage research, development and application of data base systems." Topics: data modeling, access, and schema design; implementation, reliability, recovery, and performance of distributed systems; semantics and integrity; data base life cycle; high-level user interfaces; data access algorithms; relational dependency theory; concurrency control in distributed systems; applications development.

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.

Back-End Storage Networks; *Computer*, Vol. 13, No. 2, Feb. 1980. $6.00. **JH50864**

Coverage: An overview of back-end storage networks is provided in the introduction and four papers which discuss the history of the concept of back-end networks; performance; network architecture design; trends.

Biomedical Pattern Analysis; *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. PAMI-2, No. 5, Sept. 1980. $10.00. **JH53223**

Coverage: The subjects of bioelectric signals, optical microscopic images, X-ray images, and medical consultation along with surveys of brain electrical potentials and artificial-intelligence consultation are covered by the nine papers in this special issue.

Digital Circuits; *IEEE Journal of Solid-State Circuits*, Vol. SC-15, No. 5, Oct. 1980. $10.00. **JH53280**

Coverage: Recent advances in the areas of integrated logic and memory circuitry are addressed in the 13 papers in this issue. Specific topics include: integrated injection logic (I^2L); 64K MOS RAM (metal oxide semiconductor random-access memory); bipolar and MOS technologies; CMOS (complementary MOS) vs. NMOS (n-MOS); 256K dynamic RAMs.

EMC Computer Models; *IEEE Transactions on Electromagnetic Compatibility*, Vol. EMC-22, No. 4, Part 1, Nov. 1980. $10.00. **JH51763**

Coverage: Some general-purpose models useful in EMC (electromagnetic compatibility) analysis are compiled in this special issue which is made-up of two sections: one section discusses five organizations involved in model development for EMC analysis and component design, discussing their computer models, facilities, and availability to users; the second section (five papers) covers special topics in EMC analysis.

Fault-Tolerant Computing; *Computer*, Vol. 13, No. 3, March 1980. $6.00. **JH50872**

Coverage: Established as well as new areas of fault-tolerant computing are the main concern of the seven articles that discuss these specific topics: LSI testing; error-correcting codes and self-checking circuits; system design; fault diagnosis; distributed architectures.

Improving Productivity Through Manufacturing Technology; *IEEE Transactions on Components, Hybrids, and Manufacturing Technology*, Vol. CHMT-3, No. 3, Sept. 1980. $10.00. **JH51235**

Coverage: The ten papers in this issue are concerned with increasing productivity through reducing production costs by automation, improved production control systems, or the reduction of failures in the manufacturing process.

Josephson-Junction Devices; *IEEE Transactions on Electron Devices*, Vol. ED-27, No. 10, Oct. 1980. $10.00. **JH51565**

Coverage: Twenty-two papers cover three general areas in relation to Josephson junction devices: applications; dynamic behavior of elementary circuits containing Josephson junctions; fabrication and physics of various types of Josephson junctions.

Laser Photochemistry; *IEEE Journal of Quantum Electronics*, Vol. QE-16, No. 11, Nov. 1980. $10.00. **JH52894**

Coverage: Nineteen contributions in this special issue discuss the recent work in laser photochemistry in three major areas: laser spectroscopy and analytical techniques; laser devices; and chemical reactions initiated by lasers.

Machine Processing of Remotely Sensed Data; *IEEE Transactions on Geoscience and Remote Sensing*, Vol. GE-18, No. 2, April 1980. $10.00. **JH51789**

Coverage: Nine selected papers from the *5th Symposium on Machine Processing of Remotely Sensed Data* (Proceedings, 79CH1430-8) are updated and revised for this issue. They discuss such topics as Landsat-D; crop area estimation; spectral-temporal classification; multispectral scanners and sensors; canonical analysis; spatial characteristics in multispectral data.

Military Communications; *IEEE Transactions on Communications*, Vol. COM-28, No. 9, Pt. 1, Sept. 1980. $15.00. **JH51334**

Coverage: This special issue, which features 30 papers, is systems oriented. It discusses systems overviews; long-haul systems, subsystems, and technology; tactical systems, subsystems, and technology; and specific techniques and analyses.

Motion and Time-Varying Imagery; *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. PAMI-2, No. 6, Nov. 1980. $10.00. JH53231

Coverage: This special issue, an outgrowth of the IEEE Computer Society Workshop on Computer Analysis of Time-Varying Imagery (Philadelphia, PA, April 5-6, 1979), also contains other contributions. Its ten papers and two correspondence items discuss various aspects of motion and problems relating to time-varying imagery such as X-ray biomedical imaging; Fourier series; image analysis; tracking.

Nonlinear Circuits and Systems; *IEEE Transactions on Circuits and Systems*, Vol. CAS-27, No. 11, Nov. 1980. $10.00. JH51078

Coverage: Thirteen papers review the state of the art and identify future trends and new areas of research in nonlinear circuit and system theory.

Optical-Fiber Communications; *Proceedings of the IEEE*, Vol. 68, No. 10, Oct. 1980. $10.00. JH50328

Coverage: With the intention of aiding research in optical-fibers in relation to lightwave communications, these 29 state of the art papers discuss topics such as: materials and fabrication; measurements; cables; connecting; photodetectors; single- and miltimode-fiber technology; applications to power system communication, subscriber networks, military communications, computer systems; etc.

Parallel Processing; *IEEE Transactions on Computers*, Vol. C-29, No. 9, Sept. 1980. $10.00. JH50815

Coverage: The ten papers and correspondence items in this issue are revised and updated versions of material initially presented at the *1979 International Conference on Parallel Processing* (79CH1433-2) held Aug. 21-24, 1979. They discuss these topics: parallel software; network design; massively parallel processor (MPP); bit-serial parallel processor; algorithms for parallel searching and enumeration.

Plasma Switches; *IEEE Transactions on Plasma Science*, Vol. PS-8, No. 3, Sept. 1980. $10.00. JH52407

Coverage: Pulsed power system technology as it relates to plasma devices in the realm of high-power repetitive switching is explored in 19 papers. Specific topics include basic gas and water breakdown models and surface flashover phenomena; spark gaps; advanced trigger methods; repetitive operation and electrode erosion.

Satellite Communications, Future Directions in; *IEEE Communications Magazine*, Vol. 18, No. 5, Sept. 1980. $6.00. JH51417

Coverage: The rapidly expanding commercial use of satellite communications is discussed by five papers which cover these specific areas: past and future of space communications; SBS (Satellite Business Systems) system and services; satellite communication system; talk with James Lovell, former astronaut and now President of Fisk Telephone Systems.

Software Engineering; *Proceedings of the IEEE*, Vol. 68, No. 9, Sept. 1980. $10.00. JH50310

Coverage: Thirteen articles in this issue discuss the need for a well-engineered development, maintenance, and operation process for large and complex software. The issue's three sections cover the software product; the organized process of creating and manipulating software; and the sources of knowledge to successfully engineer software.

Supersystems for the 80's; *Computer*, Vol. 13, No. 11, Nov. 1980. $6.00. JH50955

Coverage: Hardware and software issues important to the design and programming of "supersystems", very complex computer systems with increased computational concurrency, are explored in this special issue. Five articles and the introduction discuss architectures; ballistic missile defense (BMD); data flow; task allocation; vector supercomputers.

Synchronization; *IEEE Transactions on Communications*, Vol. COM-28, No. 8, Pt. 1, Aug. 1980. $15.00. JH51326

Coverage: This issue is devoted to the synchronization problem as it relates to digital communications engineering and technology. The 33 technical papers cover these specific areas of carrier and clock synchronization: satellite synchronization; false-lock phenomena in synchronizer loops; phase-locked loops.

Technological Innovations Requiring Breakthroughs (They Said It Couldn't Be Done); *IEEE Spectrum*, Vol. 17, No. 9, Sept. 1980. $8.00. JH50195

Coverage: A study of 11 unrealized projects requiring technical, economic, or institutional breakthroughs before fruition is possible: "no-downtime" computer; electronic advisor/companion; global video conference; technologists "supercomputer"; blue-collar robot; superconducting power cable; magnetohydrodynamic power; home computer center; electric car; collision-proof airspace; electronic human eye. Sources for further reading are provided.

Very Large Scale Integration; Joint Special Issue published simultaneously as *IEEE Transactions on Electron Devices*, Vol. ED-27, No. 8, Aug. 1980 ($10.00, JH51540) and *IEEE Journal of Solid-State Circuits*, Vol. SC-15, No. 4, Aug. 1980 ($15.00, JH53272)

Coverage: Forty-six papers discuss VLSI (very large scale integration) technologies in areas such as lithography, process modeling, dry etching, metal-silicide gates and interconnects, thin oxides, analyses of short-channel MOS (metal oxide semiconductor) devices, new bipolar VLSI processes and structures, high-density MOS memories, and large-area image sensors.

IEEE Standards

Unless otherwise noted, Standards listed in this section are distributed under OOP Option 5.

ANSI C2-1981. *American National Standard: National Electrical Safety Code, 1981 Edition;* Sept. 5, 1980. 366 pp., $9.75. SH08060

ANSI/IEEE C37.010-1979 (Revision of ANSI/IEEE C37.010-1972). *American National Standard: IEEE Application Guide for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis;* Oct. 29, 1980. 54 pp., $8.00. SH06569

ANSI/IEEE Std 567 (Issued October 1980 for trial use). *Draft American National Standard: IEEE Trial-Use Standard Criteria for the Design of the Control Room Complex for a Nuclear Power Generating System;* Oct. 17, 1980. 12 pp., $4.00. SH07815

EEE Std 146-1980. *IEEE Standard Definitions of Fundamental Waveguide Terms;* Aug. 29, 1980. 10 pp., $5.00. SH07872

IEEE Std 167A-1980. *Facsimile Test Chart;* © 1980. 2 pp., $5.00. SH07641

IEEE Std 268A-1980. (Extracted from IEEE Stds 268-1979, 260-1978, and 280-1968). *Conversion to Metric Measures;* 1980. Card, $6.00 per 100 copies. SH07708

IEEE Std 290-1980 (Revision of IEEE Std 290-1969). *IEEE Standard for Electric Couplings: Part I—General, Rating, Performance Characteristics, and Part II—Test Procedures;* Sept. 8, 1980. 19 pp., $6.00. SH07070

IEEE Std 308-1980 (Revision of IEEE Std 308-1978). *IEEE Standard Criteria for Class 1E Power Systems for Nuclear Power Generating Stations;* Oct. 17, 1980. 24 pp., $6.00. SH07831

IEEE Std 336-1980 (Revision of ANSI/IEEE Std 336-1977). *IEEE Standard Installation, Inspection, and Testing Requirements for Class 1E Instrumentation and Electric Equipment at Nuclear Power Generating Stations;* Oct. 28, 1980. 12 pp., $5.00. SH07757

IEEE Std 382-1980 (Revision of IEEE Std 382-1972). *IEEE Standard for Qualification of Safety-Related Valve Actuators;* Oct. 31, 1980. 39 pp., $7.50. SH07716

IEEE Std 400-1980. *IEEE Guide for Making High-Direct-Voltage Tests of Power Cable Systems in the Field;* Oct. 28, 1980. 14 pp., $4.00. SH07914

IEEE Std 450-1980 (Revision of ANSI/IEEE Std 450-1975). *IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations;* Oct. 24, 1980. 15 pp., $4.00. SH07922

IEEE Std 488A-1980 (Supplement to ANSI/IEEE Std 488-1978). *Supplement to IEEE Standard Digital Interface for Programmable Instrumentation;* Aug. 8, 1980. 3 pp., one copy sent free of charge to customers who purchase Std 488-1978 (SH07260; $10.00) first printed or corrected edition June 22, 1979. Supplement is incorporated in the 3rd printing, July 25, 1980. SH07948

IEEE Std 498-1980 (Revision of IEEE Std 498-1975). *IEEE Standard Requirements for the Calibration and Control of Measuring and Test Equipment Used in the Construction and Maintenance of Nuclear Power Generating Stations;* Oct. 24, 1980. 7 pp., $4.00. SH07963

IEEE Std 627-1980. *IEEE Standard for Design Qualification of Safety Systems Equipment Used in Nuclear Power Generating Stations;* Aug. 29, 1980. 14 pp., $5.00. SH08011

IEEE Std 649-1980. *IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations;* Oct. 28, 1980. 22 pp., $6.00. SH08037

IEEE Std 664-1980. *IEEE Guide on the Measurement of the Performance of Aeolian Vibration Dampers for Single Conductors;* Oct. 16, 1980. 12 pp., $4.00. SH07724

IEEE Press

Integrated Injection Logic, a Book of Selected Reprints, edited by James E. Smith (Burroughs Corporation). © 1980. 421 pp. ISBN (clothbound) 0-87942-137-1, LC 80-18841 (preassigned). $34.95. PC01305 (OOP 2). Also distributed through John Wiley & Sons, Inc. Wiley Order No. (clothbound) 0-471-08675-4

Coverage: This book attempts to serve as a guide through the I²L (integrated injection logic) literature to place in perspective the position of I²L in digital integrated-circuits technology. Ten sections cover these topics: conventional and second generation I²L; injection coupled logic; I²L device physics, models and LSI simulation; high performance I²L structures; novel I²L techniques; analog integrated circuit process compatible I²L; applications; I²L memory techniques; reliability and radiation hardness. A bibliography, through December 1979, reflects the section topics.

Interference Analysis of Communication Systems, a Book of Selected Reprints, edited by Peter Stavroulakis (Oakland University). © 1980. 424 pp. ISBN (clothbound) 0-87942-135-5, LC 80-18464 (CIP Data on verso of title page). $34.95. PC01321 (OOP 2). Also distributed through John Wiley & Sons, Inc. Wiley Order No. (clothbound) 0-471-08674-6

Coverage: The papers in this book provide the basic mathematical tools necessary for the understanding and analytical study of interference. Four parts cover: analog-signal interference; digital-signal interference; interference reduction/cancelling; computer simulation.

Tutorials

Business Data Processing, Perspectives on (Tutorial Series 2); *Computer*, Vol. 13, No. 11, Nov. 1980. $6.00. JH50955 (not distributed under OOP)

Computer Systems for the Processing of Diagnostic Electrocardiograms, Tutorial; edited by T. Allan Pryor, Erica Drazen, and Michael Laks. © 1980, 227 pp., LC 80-53633 (preassigned), $22.00. EH0170-1 (OOP 8)

Computer Systems Requirements, Tutorial, initially presented at the IEEE Computer Society's 4th Int'l Computer Software & Applications Conf. (COMPSAC 80), held Oct. 27-31, 1980 in Chicago, IL; edited by Kenneth J. Thurber. 356 pp., LC 80-83088 (preassigned), $20.00. EH0168-5 (OOP 8). The Proceedings (80CH1607-1) from COMPSAC 80 is listed in the Conference Publications section of this issue.

Computer Systems, Tutorials on; special series in *Computer;* edited by A. V. Pohm and T. A. Smay. Commencing with Vol. 13, No. 10, Oct. 1980.

Dedicated and Control Processing, Perspectives on (Tutorial Series 3); *Computer*, Vol. 13, No. 12, Dec. 1980. $6.00. JH50963 (not distributed under OOP)

Large-Scale Scientific Computation, Perspectives on (Tutorial Series 1); *Computer*, Vol. 13, No. 10, Oct. 1980. $6.00. JH50948 (not distributed under OOP)

Local Computer Networks, Tutorial, initially presented at COMPCON Fall 80, held Sept. 23-25, 1980 in Washington, D.C.; sponsored by IEEE C; edited by Kenneth J. Thurber and Harvey A. Freeman. 345 pp., LC 80-82443 (preassigned), $16.00. EH0163-6 (OOP 8). The Proceedings (80CH1598-2) from COMPCON Fall 80 is listed in the Conference Publications section of this issue.

Models and Metrics for Software Management and Engineering, Tutorial on, initially presented at the IEEE Computer Society's 4th Int'l Computer Software & Applications Conf. (COMPSAC 80), held Oct. 27-31, 1980 in Chicago, IL; edited by Victor R. Basili. 343 pp., LC 80-83085 (preassigned), $20.00. EH0167-7 (OOP 8). The Proceedings (80CH1607-1) from COMPSAC 80 is listed in the Conference Publications section of this issue.

Programming Language Design Tutorial, initially presented at the IEEE Computer Society's 4th Int'l Computer Software & Applications Conf. (COMPSAC 80), held Oct. 27-31, 1980 in Chicago, IL; edited by Anthony I. Wasserman. 527 pp., LC 80-83087 (preassigned), $20.00. EH0164-4 (OOP 8). The Proceedings (80CH1607-1) from COMPSAC 80 is listed in the Conference Publications section of this issue.

Software Configuration Management, Tutorial, initially presented at the IEEE Computer Society's 4th Int'l Computer Software & Applications Conf. (COMPSAC 80), held Oct. 27-31, 1980 in Chicago, IL; edited by William Bryan, Christopher Chadbourne, and Stan Siegel. 452 pp., LC 80-83084 (preassigned), $20.00. EH0169-3 (OOP 8). The Proceedings (80CH1607-1) from COMPSAC 80 is listed in the Conference Publications section of this issue.

Software Cost Estimating and Life-Cycle Control: Getting the Software Numbers Tutorial, initially presented at IEEE Computer Society's 4th Int'l Computer Software & Applications Conf. (COMPSAC 80), held Oct. 27-31, 1980 in Chicago, IL; edited by Lawrence H. Putman. 349 pp., LC 80-83083 (preassigned), $20.00. EH0165-1 (OOP 8). The Proceedings (80CH1607-1) from COMPSAC 80 is listed in the Conference Publications section of this issue.

Software System Design: Description and Analysis, Tutorial on, initially presented at the IEEE Computer Society's 4th Int'l Computer Software & Applications Conf. (COMPSAC 80), held Oct. 27-31, 1980 in Chicago, IL; edited by William E. Riddle and Jack C. Wileden. 242 pp., LC 80-83086 (preassigned), $20.00. EH0166-9 (OOP 8). The Proceedings (80CH1607-1) from COMPSAC 80 is listed in the Conference Publications section of this issue.

Miscellaneous Publications

1979 Index to IEEE Publications. © 1980, 728 pp., LC 75-646004, $95.00. **JH53348** (OOP 1-All and All Transactions Subscribers; OOP 7 will receive mail solicitation)

Coverage: Author and Subject Indexes to all papers in IEEE periodicals and conference publications, as well as to IEEE Press books, Standards, and miscellaneous publications.

Changes in IEEE Periodicals

ISSN's Assigned: Both new publications announced in the October 1980 issue of the Bulletin have been assigned ISSN's as follows: *IEEE Computer Graphics and Applications,* ISSN 0272-1716; *IEEE Micro,* ISSN 0272-1732.

New Publication: *IEEE Control Systems Magazine.* ISSN 0272-1708. Published quarterly, commencing with Vol. 1, No. 1, March 1981. Subscription price: $12.00.

Coverage: This magazine will contain technical articles that emphasize control system applications and experiences, design tools, conference programs, educational features, book reviews and Control Systems Society news items.

New Publication: *IEEE Power Engineering Review.* ISSN 0272-1724. Published monthly, commencing with Vol. 1, No. 1, January 1981. Subscription price: $42.00.

Coverage: This magazine on electric power system engineering contains one-page summaries of all papers accepted for publication in the *IEEE Transactions on Power Apparatus and Systems;* the *Power Engineering Society Newsletter,* selected prize papers, high interest papers and other articles of technical interest.

Supplementary Information

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