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average microcomputer user to begin to understand how operating systems are organized. Appendices. References. Index. RJA

Computer Science, T(14-15: 1), S, L*. An Introduction to Microcomputers, Volume I: Basic Concepts, Second Edition. Adam Osborne. Osborne/McGraw-Hill, 1980, x + 433 pp, \$12.99 (P). [ISBN: 0-931988-34-9] This is a very fine technical introduction to machine organization in the framework of microcomputers. Its principal weaknesses as a text are the lack of problems and more emphasis on hardware and details like the nature of bisync communication than on elementary algorithms, data structures and programming. The book is extremely useful as a reference and introduction because of its thorough coverage and good index. JAS

Computer Science, S(15-18), P. The HP-IL System: An Introductory Guide to the Hewlett-Packard Interface Loop. Gerry Kane, Steve Harper, David Ushijima. Osborne/McGraw-Hill, 1982, 106 pp, \$16.99 (P). [ISBN: 0-931988-77-2] A description of the hardware and software aspects of a new two-wire closed loop interface system proposed by Hewlett-Packard for inexpensive low-power communications (up to 300 feet) suitable for personal computers, laboratory instruments and pocket calculators. Given the sales pitch which HP includes, the price seems a bit high. JAS

Computer Science, P. Calvin C. Elgot: Selected Papers. Calvin C. Elgot. Ed: Stephen L. Bloom. Springer-Verlag, 1982, xxiv + 460 pp, \$32. [ISBN: 0-387-90698-3] Photographic reproductions of 13 original papers. Elgot made influential contributions to the study of computation (especially syntax and semantics of flowchart schemes) in the framework of category theory and algebra. GHM

Computer Science, S, P, L. Selected Writings on Computing: A Personal Perspective. Edsger W. Dijkstra. Texts & Mono. in Comp. Sci. Springer-Verlag, 1982, xvii + 362 pp, \$28. [ISBN: 0-387-90652-5] Selections from Dijkstra's scientific correspondence during the intellectual preoccupations of one of the pioneers of computer science. Most interesting are numerous "trip reports" (with some names changed to variables to protect against slander suits) in which Dijkstra reports to his employer (Burroughs) on his reactions to visits and lectures in computer facilities around the world. LAS

Applications (Digital Electronics), S(15-16), P. PET/CBM and the IEEE 488 Bus (GPIB), Second Edition. Eugene Fisher, C.W. Jensen. Osborne/McGraw-Hill, 1982, xii + 319 pp, \$15.99 (P). [ISBN: 0-931988-78-0] Designed to serve three levels of would-be users of PET/CBM computers in conjunction with laboratory instruments. First comes a cookbook approach; when that fails to work there is a "why" level; and finally full machine level information on the IEEE 488 Bus in the PET/CBM computers is provided for those who would solder up their own devices. JAS

Applications (Economics), P. Lecture Notes in Economics and Mathematical Systems-201: Price Effects in Input-Output Relations: A Theoretical and Empirical Study for the Netherlands 1949-1967. Paul M.C. de Boer. Springer-Verlag, 1982, x + 140 pp, \$10.70 (P). [ISBN: 0-387-11550-1] An approach to adapting various input-output economic models for use with monetary values that are commonly available instead of values which are seldom available. AWR

Applications (Economics), P. Lecture Notes in Economics and Mathematical Systems-203: Compilation of Input-Output Tables. Ed: Jiri V. Skolka. Springer-Verlag, 1982, vii + 307 pp, \$21 (P). [ISBN: 0-387-11553-6] Proceedings of a session of the 17th General Conference of the International Association for Research in Income and Wealth, held in Gouvieux, France. Separate papers on procedures used in various countries for developing data for input-output analysis. AWR

Applications (Physics), P. Abstracts of the Workshop Statistical Mechanics, Dynamical Systems and Turbulence. IMA, 1982, 46 pp, (P). First in a series of reports from the University of Minnesota's Institute for Mathematics and Its Applications: summaries with references of 15 papers on the models that bifurcation theory, iterated maps, and dynamical systems provide for turbulent phenomena. LAS

Applications (Social Science), T(15-16: 1, 2), S*, P, L**. Political and Related Models. Ed: Steven J. Brams, William F. Lucas, Philip D. Straffin, Jr. Modules in Appl. Math., V. 2. Springer-Verlag, 1983, xx + 396 pp, \$28. [ISBN: 0-387-90696-7] More applications of undergraduate mathematics--the second of four volumes from the 1972-1977 MAA/CUPM summer workshops. Topics in this volume range from coalition values to apportionment, from indices of voting power to waste water management. An excellent resource for undergraduate seminars in mathematical modelling. LAS

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American Mathematical Monthly (All terms expire December 31, 1986):

Editor: Paul R. Halmos

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Mathematics Magazine (All terms expire December 31, 1985):

Editor: Doris L. Schattschneider

Associate Editors: Edward J. Barbeau, John A. Beidler, Paul J. Campbell, Underwood Dudley, Gerald A. Edgar, Joseph A. Gallian, Judith V. Grabiner, Raoul Hailpern, Pierre J. Malraison, Joseph Malkevitch, William A. McWorter, Jr., Leroy F. Meyers, Jean J. Pedersen, Gordon Raisbeck, Ian Richards, Eric S. Rosenthal, Dan Shapiro, David A. Smith.

Two-Year College Mathematics Journal (All terms expire December 31, 1988):

Editor: Warren Page

Associate Editors: Jeanne Agnew, Gerald L. Alexanderson, John D. Bradburn, Donald W. Bushaw, Michael W. Chamberlain, Leo Chosid, Gino T. Fala, Stanley Friedlander, Samuel A. Greenspan, Erwin Just, Peter L. Renz, Billie A. Rice, Milton E. Winger.

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Section Q: Joan P. Leitzel (1981-83)
Section U: Fred Mosteller (1981-83)
Section X: Alfred B. Willcox (1981-83)

On UMAP Editorial Board: Peter A. Lindstrom (1981-83); Anne F. O'Neill (1981-83); Philip D. Straffin (1982-84).

On the Council of the Conference Board of the Mathematical Sciences: Ivan Niven.

On Discipline Committee for Mathematics of CEEB: Donald L. Kreider.

On the Governing Council of Mu Alpha Theta: Katherine P. Layton (1982-84).

On the U.S. Commission on Mathematical Instruction: Leon A. Henkin (1978-83); Eileen L. Poiani (1981-85).