

little more than banners often waved. Certainly much more work must be done before we can assess the relative merits of special education and mainstreaming. Similarly, while most experienced workers agree that the general level of care in many large state institutions for the retarded is very bad, there are simply too many unanswered questions to warrant an unequivocal stance in favor of deinstitutionalization. While there is some evidence that the new caretaking settings for retarded are more humane than the large state schools we would like to depopulate, what evidence is there that the development of the retarded is superior in these new settings? What exactly are the cost implications of a deinstitutionalization policy? As can be inferred from Edgerton's chapter, the greatest danger in such a policy is the potential it holds for making the lives of the 200,000 retarded individuals now in the large institutions even worse in the future than they are today.

The concept of advocacy for the mentally retarded appears in various forms throughout the book. Although several government agencies have attempted to incorporate such an activity into ongoing programs, the concept badly needs some operational definition, for it has been exceedingly difficult to translate into action. In the meantime, the reviewer will continue to regard the activities of Elizabeth Boggs, America's premier advocate for the retarded, as providing a model on which such a definition could be based. The case studies presented in her chapter in this book will be invaluable reading for those researchers and service delivery people who are continually perplexed by the myriad decisions made in that land of Oz called Washington.

Given the rich discussion of so many major issues pertaining to mental retardation, this book could have benefited greatly from a synthesizing chapter. The final chapter, by Etzioni and Richardson, simply does not deliver what it promises. My suggestion is that the fine introductory chapter by Begab be read last. Begab touches on just about every issue to be found in this book, and his chapter can be used as the organizing rubric for the important themes appearing throughout the book. Setting aside carping concerns, I can report that a close reading of this book made me feel much more knowledgeable about the past, present, and future of the mental retardation field. More I cannot ask.

EDWARD ZIGLER

*Department of Psychology,
Yale University,
New Haven, Connecticut*

Neuroendocrine Systems

Subcellular Mechanisms in Reproductive Neuroendocrinology. Papers from a symposium, Jamaica Plain, Mass., Oct. 1975. F. NAFTOLIN, K. J. RYAN, and I. J. DAVIES, Eds. Elsevier, New York, 1976. xii, 530 pp., illus. \$59.75.

Even to one peripherally interested in the mechanisms of neuroendocrine control of reproduction, this field clearly is not one in which neatly solved problems abound. In fact, it appears to be a bewildering array of very basic unanswered questions: What cell types are responsible for the synthesis of hypophysiotropic hormones? What is their synthetic machinery? What are their afferent connections? What other types of input do they have in terms of control of hormone synthesis and release? If the questions that are basic to the understanding of subcellular mechanisms in neuronal and endocrine systems in general are added to this list, such as those concerning the importance of cyclic nucleotides, prostaglandins, and metal ions, the confusion is compounded still further. This fine collection of reviews helps to bring forth what order there is in the chaos.

Relationships between steroid hormones and neuroendocrine tissues are treated in a particularly thorough manner. The group of chapters on endogenous steroid levels in neuroendocrine tissues, specific steroid binding, and subcellular distribution of receptors provides the physicochemical and architectural framework for the establishment of functional correlates. Taken as a group, the several chapters on steroid metabolism in neuroendocrine tissues constitute a thorough review of the concept of circulating steroid hormones as prohormones to be converted to specific functional forms by biotransformation in the target tissues.

Elucidation of the mechanisms that control the biosynthesis and release of hypothalamic hypophysiotropic hormones has been painfully slow. It is becoming increasingly clear that there are two major obstacles to investigations of these mechanisms. First, the peptides are present in quantities that are minute even by today's standards of microanalysis, and their presence in a milieu that contains a large number of amino acids and peptides makes their isolation difficult. Second, active systems for biodegradation of the peptides appear to be ubiquitous in neuronal tissues. In successive chapters, Seymour Reichlin makes a strong case for the use of exhaustive purification procedures and

control of peptide degradation when studying the biosynthesis of the hormones and Neville Marks provides a biochemical definition of the various peptide hormone degradation processes.

Also included in the volume are several seldom-reviewed topics with broad implications. For example, a chapter by Alan Poisner on the role of calcium in neuroendocrine systems brings into focus the importance of this metal not only for its role in hormone release, but also for its involvement in intracellular transport and storage mechanisms.

If any fault can be found with the volume, it is simply that the title is unnecessarily restrictive. Neuroendocrine systems have been treated quite broadly in the volume, and a wealth of information on systems not normally considered to be directly involved in reproduction is included.

DAVID PEARSON

*Division of Neuroscience,
City of Hope National Medical Center,
Duarte, California*

Books Received and Book Order Service

Books Received and the Book Order Service will be combined in issues in which there is a Readers' Service Card. To order any of the Book Order Service books, circle the corresponding number on the Readers' Service Card (pages 1160A and 1224A); the participating publisher(s) will ship the title(s) ordered and send you a bill.

Acoustics and Vibration Progress. Vol. 2. R. W. B. Stephens and H. G. Leventhall, Eds. Chapman and Hall, London, 1977 (U.S. distributor, Halsted [Wiley], New York). viii, 204 pp., illus. \$22.50. *To order this book circle No. 424 on Readers' Service Card.*

Adolescence and Youth in Prospect. Papers from a colloquium, Amsterdam, Sept. 1975. John P. Hill and Franz J. Möns, Eds. IPC Science and Technology Press, Guildford, Surrey, England, 1977. viii, 218 pp. £6.80.

Advances in Librarianship. Vol. 7. Melvin J. Voigt and Michael H. Harris, Eds. Academic Press, New York, 1977. xvi, 348 pp. \$22.50. *To order this book circle No. 425 on Readers' Service Card.*

Am Ende aller Religion? Ein Streitgespräch. Nikolaus Lobkowicz and Anselm Hertz. A. Fromm, Osnabrück, 1976. 88 pp. Paper, DM 8. Texte + Thesen, 77.

Anthropology. Carol R. Ember and Melvin Ember. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1977. xx, 512 pp., illus. \$14.95.

Anthropology and History in Yucatán. Grant D. Jones, Ed. University of Texas Press, Austin, 1977. xxiv, 344 pp. + plates. \$16.95.

Bibliography of Liquid Column Chromatography 1971-1973 and Survey of Applications. Zdeněk Deyl and Jan Kopecký. Elsevier, New York, 1976. xx, 1136 pp. Paper, \$103.50. *Journal of Chromatography*, supplementary volume No. 6.

The Biology of the Sticklebacks. R. J. Wootton. Academic Press, New York, 1976. x, 388 pp., illus. \$29.50. *To order this book circle No. 426 on Readers' Service Card.*

Birth Defects and Drugs in Pregnancy. Olli P. Heinonen, Dennis Slone, and Samuel Shapiro with six others. David W. Kaufman, Ed. Publishing Sciences Group, Littleton, Mass., 1977. xii, 516 pp. \$75.

Carbon Sulfides and Their Inorganic and Complex Chemistry. G. Gattow and W. Behrendt. Thieme, Stuttgart, 1977. vi, 262 pp., illus. Paper, DM 128. Topics in Sulfur Chemistry, vol. 2.

The Cell. Carl P. Swanson and Peter L. Webster. Prentice-Hall, Englewood Cliffs, N.J., ed. 4, 1977. xvi, 304 pp., illus. Cloth, \$12.95; paper, \$8.95. Prentice-Hall Foundations of Modern Biology Series.

Chemistry. The Central Science. Theodore L. Brown and H. Eugene LeMay, Jr. Prentice-Hall, Englewood Cliffs, N.J., 1977. xvi, 816 pp., illus. \$15.95.

Chromatin and Chromosome Structure. Papers from a seminar course, New York, 1975. Hsueh Jei Li and Ronald A. Eckhardt, Eds. Academic Press, New York, 1977. xiv, 358 pp., illus. \$16.50. *To order this book circle No. 427 on Readers' Service Card.*

Clinical Uses of Frozen-Thawed Red Blood Cells. Proceedings of a symposium, Indianapolis, Apr. 1976. John A. Griep, Ed. Liss, New York, 1976. viii, 214 pp., illus. \$16. Progress in Clinical and Biological Research, vol. 11. *To order this book circle No. 428 on Readers' Service Card.*

CMOS Cookbook. Don Lancaster. Sams, Indianapolis, 1977. 414 pp., illus. Paper, \$9.95.

Coal. Part 2, Scientific and Technical Aspects. Mones E. Hawley, Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1977 (distributor, Halsted [Wiley], New York). xvi, 422 pp., illus. \$30. Benchmark Papers on Energy, vol. 4. *To order this book circle No. 429 on Readers' Service Card.*

Coastal Ecology. Bodega Head. Michael G. Barbour, Robert B. Craig, Frank R. Drysdale, and Michael T. Ghiselin. Drawings by Mary Breckon. Photographs by Ted Barnes. University of California Press, Berkeley, 1977. xx, 338 pp. Paper, \$5.95. Reprint of the 1973 edition.

Computer Programming for Spatial Problems. E. Bruce MacDougall. Halsted (Wiley), New York, 1976. viii, 160 pp., illus. \$17.50. *To order this book circle No. 430 on Readers' Service Card.*

Conservation and Scientific Analysis of Painting. Madeleine Hours. Translated from the French edition. Van Nostrand Reinhold, New York, 1977. 128 pp., illus. \$20. *To order this book circle No. 431 on Readers' Service Card.*

Contemporary Mathematics. Bruce E. Meserve and Max A. Sobel. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1977. xiv, 592 pp., illus. \$12.95.

Crop Production in Europe. Maurice Ed-dowes. Oxford University Press, New York, 1976. x, 318 pp., illus. \$17.75.

Cultural Anthropology. Carol R. Ember and Melvin Ember. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1977. xviii, 362 pp., illus. Paper, \$9.95.

The Culture of Professionalism. The Middle Class and the Development of Higher Education in America. Burton J. Bledstein. Norton, New York, 1976. xiv, 354 pp. \$12.95.

Cytotaxonomical Atlas of the Pteridophyta. Askell Löve, Doris Löve, and R. E. G. Pichi Sermolli. Cramer (Gantner), Vaduz, 1977.

xviii, 398 pp. DM 150. Cytotaxonomical Atlases, vol. 3.

Data Base Management Systems. Dionysios C. Tsichritzis and Frederick H. Lochovsky. Academic Press, New York, 1977. xvi, 390 pp., illus. \$16.95. Computer Science and Applied Mathematics. *To order this book circle No. 432 on Readers' Service Card.*

Data Base Organization for Data Management. Sakti P. Ghosh. Academic Press, New York, 1977. xii, 376 pp., illus. \$29.50. Computer Science and Applied Mathematics. *To order this book circle No. 433 on Readers' Service Card.*

Data Structures and Programming Techniques. Herman A. Maurer. Translated from the German edition (Stuttgart) by Camille C. Price. Prentice-Hall, Englewood Cliffs, N.J., 1977. x, 228 pp., illus. \$13.50.

Defence Mechanisms of Plants. Brian J. Deverall. Cambridge University Press, New York, 1977. viii, 110 pp., illus. \$12.50. Cambridge Monographs in Experimental Biology, No. 19.

Delinquency and Psychopathology. Dorothy Otnow Lewis and David A. Balla with the assistance of Shelley S. Shanok. Grune and Stratton, New York, 1976. xxvi, 210 pp. \$14.75.

Denkmalschutz. Internationale Probleme—Nationale Projekte. Hans Maier, Ed. A. Fromm, Osnabrück, 1976. 144 pp. Paper, DM 8. Texte + Thesen, 69.

Determination of Liquid Water Structure. Coordination Numbers for Ions and Solvation for Biological Molecules. Enrico Clementi. Springer-Verlag, New York, 1976. vi, 108 pp., illus. Paper, \$7.40. Lecture Notes in Chemistry, 2.

Developmental Disabilities. Psychologic and Social Implications. Papers from a conference, Baltimore, Mar. 1976. Daniel Bergsma, Ann E. Pulver, Natalie W. Paul, and Florence Dickman, Eds. Liss, New York, 1976. xviii, 188 pp. \$18. National Foundation—March of Dimes Birth Defects: Original Article Series, vol. 12, No. 4. *To order this book circle No. 434 on Readers' Service Card.*

Developments in Heat and Mass Transfer. Allan Ede Memorial Issue. D. B. Spalding, Ed. Pergamon, New York, 1976. vi + pp. 1077–1216, illus. \$25. *International Journal of Heat and Mass Transfer*, vol. 19, No. 10. *To order this book circle No. 435 on Readers' Service Card.*

Diabetes and Other Endocrine Disorders during Pregnancy and in the Newborn. Proceedings of a symposium, New York, Apr. 1976. Maria I. New and Robert H. Fiser, Jr., Eds. Liss, New York, 1976. x, 262 pp., illus. \$26. Progress in Clinical and Biological Research, vol. 10. *To order this book circle No. 436 on Readers' Service Card.*

The Early History of Agriculture. Papers from a symposium, Apr. 1975. Published for the British Academy by Oxford University Press, New York, 1977. iv, 214 pp., illus. + plates. \$28.75. Also published as *Philosophical Transactions of the Royal Society*, B vol. 275 (1976).

The Effect of the Man-Made Environment on Health and Behavior. Lawrence E. Hinkle, Jr., and William C. Loring, Eds. Center for Disease Control, Atlanta, Ga., 1977 (available from the Superintendent of Documents, Washington, D.C.). xlviii, 316 pp. Paper, \$3.25. DHEW Publication No. (CDC) 77–8318. Stock No. 017-023-00110-8.

Essays in Neurochemistry and Neuropharmacology. Vol. 1. M. B. H. Youdim, W. Lov-

enberg, D. F. Sharman, and J. R. Lagnado, Eds. Wiley-Interscience, New York, 1977. xii, 196 pp. \$21.50. *To order this book circle No. 437 on Readers' Service Card.*

The Essential Guide to Prescription Drugs. What You Need to Know for Safe Drug Use. James W. Long. Harper and Row, New York, 1977. xvi, 752 pp. Cloth, \$25; paper, \$8.95.

Estratificación Social en la Mesoamérica Prehispánica. Papers from a congress, Mexico, Sept. 1974. Pedro Carrasco, Johanna Broda, and others. Centro de Investigaciones Superiores, Tlalpan, Mexico, 1976. 304 pp., illus. Paper, \$3.

The Evolution of Pancreatic Islets. Proceedings of a symposium, Leningrad, Sept. 1975. T. Adesanya I. Grillo, L. Leibson, and A. Epple, Eds. Pergamon, New York, 1976. xii, 372 pp., illus. \$25. *To order this book circle No. 438 on Readers' Service Card.*

Evolution of the Solar System. Hannes Alfvén and Gustaf Arrhenius. National Aeronautics and Space Administration, Washington, D.C., 1976 (available from the Superintendent of Documents, Washington, D.C.). xii, 600 pp., illus. \$11. NASA SP-345. Stock No. 033-000-06613-6.

Exploring the Galaxies. Simon Mitton. Scribner, New York, 1977. 206 pp., illus. + plates. \$12.

The Fate of Drugs in the Organism. A Bibliographic Survey. Vol. 4. Compiled by Société Française des Sciences et Techniques Pharmaceutiques Working Group. Dekker, New York, 1977. xxii, 612 pp. \$75.

Foundations of Mathematical Genetics. A. W. F. Edwards. Cambridge University Press, New York, 1977. viii, 120 pp., illus. \$13.50.

Gemeindepsychologie. Therapie und Prävention in der sozialen Umwelt. Gert Sommer and Heiko Ernst, Eds. Urban und Schwarzenberg, Munich, 1977. x, 290 pp. Paper, DM 28. Fortschritte der Klinischen Psychologie, 11.

A Good Idea. The History of the Nutrition Foundation. Charles Glen King. Nutrition Foundation, Washington, D.C., 1976. xii, 242 pp., illus. Cloth, \$10; paper, \$6.

Handbook of Industrial Noise Management. Richard K. Miller. Albert Thumann, Ed. Fairmont Press, Atlanta, 1976. vi, 210 pp., illus. \$19.95.

Health, Weather and Climate. Felix Gad Sulman. Karger, Basel, 1976. viii, 166 pp., illus. Paper, \$11. Perspectives in Medicine, 7.

IIASA Conference '76. Vienna, Austria, May 1976. International Institute for Applied Systems Analysis, Laxenburg, Austria, 1976. Two volumes. viii, 322 pp., illus., and vi, 252 pp., illus. Paper, \$10.

Impact of Family Planning Programs on Fertility. The U.S. Experience. Phillips Cutright and Frederick S. Jaffe. Praeger, New York, 1977. xx, 154 pp. \$15. Praeger Special Studies in U.S. Economic, Social, and Political Issues.

Intermolecular Interactions and Biomolecular Organization. A. J. Hopfinger. Wiley-Interscience, New York, 1977. xx, 396 pp., illus. \$26. *To order this book circle No. 439 on Readers' Service Card.*

Introduction to Physiological Plant Ecology. P. Bannister. Halsted (Wiley), New York, 1977. x, 274 pp., illus. \$12.95. *To order this book circle No. 440 on Readers' Service Card.*

Iron Metabolism and Thalassemia. Papers from a conference, Key Biscayne, Fla., Nov. 1975. Daniel Bergsma, Anthony Cerami, Charles M. Peterson, Joseph H. Graziano, and Sue Conde Greene, Eds. Liss, New York,

(Continued on page 1238)

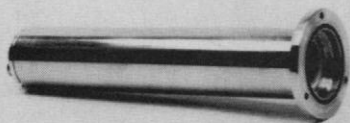
TWINS



9824
BIALKALI
300-650 NM

9798
S-20
200-850 NM

New 30 mm photomultipliers from EMI mechanically and electrically interchangeable with earlier EMI types such as 9524, 9592, 9529. 9824 has a bialkali cathode giving good Q.E. with very low dark current and high gain. 9798 has a UV window which combined with its S-20 cathode gives a wide spectral range (200-850 nm). Either type can be had with spectrosil window for extended UV or low background applications.



For Photon Counting, RFI/QL-30F slim-line housings complete with potted divider chain are available for all 30 mm tubes. Available from stock. Details from:



EMI GENCOM INC.

80 EXPRESS ST., PLAINVIEW, NY 11803
TEL: 516-433-5900. TLX: 510-221-1889

Circle No. 190 on Readers' Service Card

BOOKS RECEIVED AND

BOOK ORDER SERVICE

(Continued from page 1195)

1976. xvi, 198 pp., illus. \$22. National Foundation—March of Dimes Birth Defects: Original Article Series, vol. 12, No. 8. To order this book circle No. 474 on Readers' Service Card.

Jealousy. Gordon Clanton and Lynn G. Smith, Eds. Prentice-Hall, Englewood Cliffs, N.J., 1977. xii, 244 pp. Cloth. \$8.95; paper, \$3.95. A Spectrum Book.

Konrad Lorenz. Alec Nisbett. Harcourt Brace Jovanovich, New York, 1977. xiv, 240 pp. + plates. \$10. A Helen and Kurt Wolff Book.

Land as a Waste Management Alternative. Proceedings of a conference, Ithaca, N.Y., 1976. Raymond C. Loehr, Ed. Ann Arbor Science Publishers, Ann Arbor, Mich., 1977. xii, 812 pp., illus. \$29.50.

Laser Monitoring of the Atmosphere. E. D. Hinkley, Ed. Springer-Verlag, New York, 1976. xvi, 382 pp., illus. \$39.80. Topics in Applied Physics, vol. 14. To order this book circle No. 451 on Readers' Service Card.

Love, Sex, and Sex Roles. Constantina Safilios-Rothschild. Prentice-Hall, Englewood Cliffs, N.J., 1977. x, 150 pp. Cloth. \$8.95; paper, \$3.95. A Spectrum Book.

Lymphocytes, Macrophages, and Cancer. Papers from a symposium, Paris, June 1975. G. Mathé, I. Florentin, and M.-C. Simmler, Eds. Springer-Verlag, New York, 1976. x, 162 pp., illus. \$23. Recent Results in Cancer Research, 56. To order this book circle No. 452 on Readers' Service Card.

Measurement of Unsteady Fluid Dynamic Phenomena. Papers from a lecture series, Rhode-Saint-Genève, Belgium, Jan. 1975. Bryan E. Richards, Ed. Hemisphere, Washington, D.C., and McGraw-Hill, New York, 1977. xii, 340 pp., illus. \$35. A von Karman Institute Book. Series in Thermal and Fluids Engineering. To order this book circle No. 453 on Readers' Service Card.

Mechanics of Continuous Media. S. C. Hunter. Horwood, Chichester, England, and Halsted (Wiley), New York, 1977. 568 pp., illus. \$37.50. Mathematics and Its Applications. To order this book circle No. 454 on Readers' Service Card.

Medical Botany. Plants Affecting Man's Health. Walter H. Lewis and Memory P. F. Elvin-Lewis. Wiley-Interscience, New York, 1977. xviii, 516 pp., illus. \$27.50. To order this book circle No. 441 on Readers' Service Card.

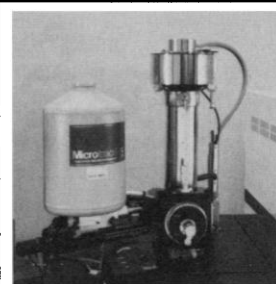
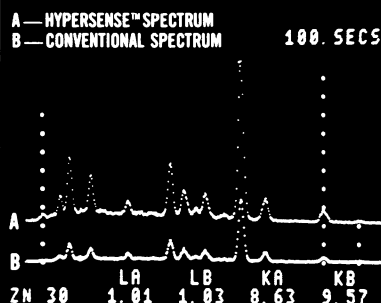
Membranes and Neoplasia. New Approaches and Strategies. Papers from a meeting, Keystone, Colo., Mar. 1976. Vincent T. Marchesi and six others, Eds. Liss, New York, 1976. xii, 292 pp., illus. \$35. Progress in Clinical and Biological Research, vol. 9. To order this book circle No. 442 on Reader's Service Card.

Memory and Cognition. Walter Kintsch. Wiley, New York, ed. 2, 1977. vi, 490 pp., illus. \$13.95. To order this book circle No. 475 on Readers' Service Card.

Metabolic Interconversion of Enzymes 1975. Papers from a symposium, Arad, Israel, Apr. 1975. S. Shaltiel, Ed. Springer-Verlag, New York, 1976. xviii, 236 pp., illus. \$29.60. Proceedings in Life Sciences. To order this book circle No. 443 on Readers' Service Card.

Metallurgy and Plastics for Engineers. Merle C. Nutt. Pergamon, New York, 1976. xvi, 550 pp., illus. \$25. To order this book circle No. 444 on Readers' Service Card.

Hyper-sensitive X-ray analyzer spots "invisible" trace elements



Trace elements you can easily miss appear clearly in spectra created by our new HYPERSENSE™ detector. That's because it produces counting rates three times as high as conventional detectors. And it's available right now as an option to most MICROTRACE™ spectrometers for your SEM.

The two spectra above of a paint specimen show the dramatic increase in counting rates for the zinc L line identified by element markers. Notice especially that the zinc L line is completely missing in conventional spectrum B, but is clearly visible in HYPERSENSE™ spectrum A.

You get accurate quantitative analyses in much shorter counting times. Due to the advanced geometry of the detector, you get better results at both very short and unusually long working distances.

MICROTRACE™ spectrometers detect X-rays produced by conventional electron-beam excitation. But also by BULK MODE X-ray excitation—in which X-rays flood a large volume of the sample to reveal elements not detectable by electron excitation.

For all the details contact Nuclear Semiconductor Division, United Scientific Corporation, Dept D, 1400 Stierlin Road, P.O. Box 1389, Mt. View, Calif. 94042. Phone (415) 969-9400.

**US UNITED
SCIENTIFIC**
NUCLEAR SEMICONDUCTOR DIVISION

Circle No. 75 on Readers' Service Card

SCIENCE, VOL. 196

Methods of Architectural Programming. Henry Sanoff. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1977. xiv, 184 pp., illus. \$18. Community Development Series, 29.

The Minicomputer in the Laboratory. With Examples Using the PDP-11. James W. Cooper. Wiley-Interscience, New York, 1977. xviii, 366 pp., illus. \$19.50. *To order this book circle No. 455 on Readers' Service Card.*

Morphology and Biology of Reptiles. Papers from a symposium, London, Sept. 1975. A. d'A. Bellairs and C. Barry Cox, Eds. Published for the Linnean Society of London by Academic Press, New York, 1976. xii, 290 pp., illus. \$31.75. Linnean Society Symposium Series, No. 3. *To order this book circle No. 445 on Readers' Service Card.*

Multiple Hypergeometric Functions and Applications. Harold Exton. Horwood, Chichester, England, and Halsted (Wiley), New York, 1977. 312 pp. \$27.50. Mathematics and Its Applications. *To order this book circle No. 456 on Readers' Service Card.*

Nicht Tier, nicht Engel. Der Mensch zwischen Natur und Kultur. Joachim Illies. A. Fromm, Osnabrück, 1975. 76 pp. Paper, DM 8. Texte + Thesen, 59.

One-Dimensional Compressible Flow. H. Daneshyar. Pergamon, New York, 1976. xii, 180 pp., illus. Cloth, \$15; paper, \$7.50. Thermodynamics and Fluid Mechanics Series. Pergamon International Library. *To order this book circle No. 457 on Readers' Service Card.*

Pesticide Chemistry in the 20th Century. Papers from a symposium, New York, Apr. 1976. Jack R. Plimmer, Philip C. Kearney, Gustave K. Kohn, Julius J. Menn, and Stanley Ries, Eds. American Chemical Society, Washington, D.C., 1977. x, 310 pp., illus. \$20. ACS Symposium Series, 37. *To order this book circle No. 458 on Readers' Service Card.*

Physics of the Earth. Frank D. Stacey. Wiley, New York, ed. 2, 1977. xii, 414 pp., illus. \$19.95. *To order this book circle No. 446 on Readers' Service Card.*

Pollution Formation and Destruction in Flames. N. A. Chigier, Ed. Pergamon, New York, 1976. vi, 220 pp., illus. \$50. Progress in Energy and Combustion Science, vol. 1. *To order this book circle No. 447 on Readers' Service Card.*

Principles of Digital Data Transmission. A. P. Clark. Halsted (Wiley), New York, 1977. x, 246 pp., illus. \$16.75. *To order this book circle No. 459 on Readers' Service Card.*

Proceedings of the First National Symposium on Environmental Concerns in Rights-of-Way Management. Mississippi State, Jan. 1976. Robert Tillman, Ed. Mississippi State University Department of Wildlife and Fisheries, Mississippi State, 1976. x, 336 pp., illus. Paper, \$7.

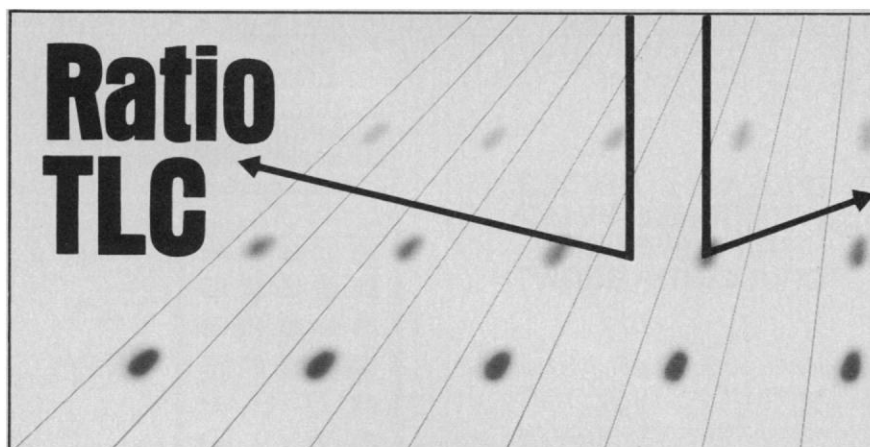
Progress in Inorganic Chemistry. Vol. 22. Stephen J. Lippard, Ed. Interscience (Wiley), New York, 1977. viii, 438 pp., illus. \$25.95. *To order this book circle No. 465 on Readers' Service Card.*

Progress in Materials Science. Vol. 21. Bruce Chalmers, J. W. Christian, and T. B. Massalski, Eds. Pergamon, New York, 1976. vi, 466 pp., illus. \$56. *To order this book circle No. 471 on Readers' Service Card.*

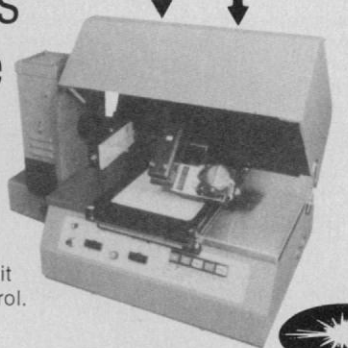
Protides of the Biological Fluids. Proceedings of a colloquium, Brugge, Belgium, 1976. H. Peeters, Ed. Pergamon, New York, 1976. xx, 836 pp., illus. \$75. Proteins and Related Subjects, vol. 24. *To order this book circle No. 460 on Readers' Service Card.*

The Psychoanalytic Study of the Child. Vol. 31. Ruth S. Eisler, Anna Freud, Marianne

Ratio TLC



Quantitation of TLC is much more accurate with an SD-3000



This double-beam spectrodensitometer/fluorometer rapidly and accurately analyzes thin layer media in all classical modes. Its background discriminating capability has made it the standard of R&D and quality control.

24 Booker Street, Westwood, New Jersey 07675
(201) 664-7263

SCHOEFFEL
INSTRUMENT CORPORATION

Circle No. 22 on Readers' Service Card

GULTON'S thermal writing portable recorders



There's more to Gulton's portable oscillographic recorders than clear, easy-to-read tracings. For example, our thermal writing styli eliminate the need for priming, refilling and changing of pen cartridges. And there's never a smear, skip or puddle on your chart.

Light and perfectly balanced, Gulton's thermal writing styli provide up to 125 Hz frequency response and excellent shock resistance. They also record in any orientation.

You'll find that our 2, 4, 6 and 8 channel recorders are truly portable and extremely versatile. Write or call today for 12 page portables catalog.

gulton®
Measurement & Control Systems Division
Gulton Industries Inc., East Greenwich, Rhode Island 02818
401-884-6800 • TWX 710-387-1500

Circle No. 220 on Readers' Service Card

Kris, and Albert J. Solnit, Eds. Yale University Press, New York, 1976. viii, 574 pp. \$20.

Radiation Effects on Solid Surfaces. Papers from a symposium, Chicago, Aug. 1975. Manfred Kaminsky, Ed. American Chemical Society, Washington, D.C., 1976. x, 398 pp., illus. \$32.50. *Advances in Chemistry Series, 158. To order this book circle No. 466 on Readers' Service Card.*

Radiationless Processes in Molecules and Condensed Phases. F. K. Fong, Ed. Springer-Verlag, New York, 1976. xiv, 362 pp., illus. \$39.80. *Topics in Applied Physics, vol. 15. To order this book circle No. 461 on Readers' Service Card.*

The Radicalisation of Science. Ideology of/in the Natural Sciences. Hilary Rose and Steven Rose, Eds. Holmes and Meier, New York, 1977. xxvi, 206 pp. \$23. *Critical Social Studies.*

Retinas of Fishes. An Atlas. M. A. Ali and M. Anctil. Springer-Verlag, New York, 1976. xiv, 286 pp. \$49.20. *To order this book circle No. 462 on Readers' Service Card.*

The Role of Terrestrial and Aquatic Organisms in Decomposition Processes. Papers from a symposium, Apr. 1975. J. M. Anderson and A. Macfadyen, Eds. Blackwell, Oxford, England, 1976 (U.S. distributor, Halsted [Wiley], New York). xii, 474 pp., illus. \$32.50. *To order this book circle No. 467 on Readers' Service Card.*

Schizophrenia. Selected Papers. David Shakow. International Universities Press, New York, 1977. xviii, 358 pp. \$12.50. *Psychological Issues Monograph 38.*

The Sea. Ideas and Observations on Progress in the Study of the Seas. Vol. 6, Marine Modeling. E. D. Goldberg, I. N. McCave, J. J. O'Brien, and J. H. Steele, Eds. Wiley-Interscience, New York, 1977. xvi, 1048 pp., illus. \$49.50. *To order this book circle No. 468 on Readers' Service Card.*

Selected Papers from: Third International Conference on Port and Ocean Engineering under Arctic Conditions. Fairbanks, Aug. 1975. Michael E. McCormick, Ed. Pergamon, New York, 1976. vi pp. + pp. 263-382, illus. Paper, \$15. *Ocean Engineering, vol. 3, No. 5. To order this book circle No. 463 on Readers' Service Card.*

Sinn-Deutungen der Geschichte. Drei philosophische Betrachtungen zur Situation. Max Müller. A. Fromm. Osnabrück, 1976. 126 pp. Paper, DM 8. *Texte + Thesen, 75.*

Soils of the Polar Landscapes. John C. F. Tedrow. Rutgers University Press, New Brunswick, N.J., 1977. xxvi, 638 pp., illus. \$60.

Statistical Decision Theory and Related Topics II. Proceedings of a symposium, West Lafayette, Ind., May 1976. Shanti S. Gupta and David S. Moore, Eds. Academic Press, New York, 1977. xiv, 478 pp., illus. \$19.50. *To order this book circle No. 469 on Readers' Service Card.*

Statistical Methods for Digital Computers. Kurt Enslein, Anthony Ralston, and Herbert S. Wilf, Eds. Wiley-Interscience, New York, 1977. x, 454 pp., illus. \$24.95. *Mathematical Methods for Digital Computers, vol. 3. To order this book circle No. 464 on Readers' Service Card.*

Stereochemistry of Heterocyclic Compounds. Part 1, Nitrogen Heterocycles. W. L. F. Armarego. Wiley-Interscience, New York, 1977. xviii, 434 pp., illus. \$39.95. *General Heterocyclic Chemistry Series. To order this book circle No. 470 on Readers' Service Card.*

Striking a Balance. Environment and Natural Resources Policy in the Nixon-Ford Years.

John C. Whitaker. American Enterprise Institute for Public Policy Research, Washington, D.C., and Hoover Institution on War, Revolution and Peace, Stanford, Calif., 1977. xvi, 344 pp. Paper, \$5. *AEI-Hoover Policy Studies.*

Studies in History of Biology. Vol. 1. William Coleman and Camille Limoges, Eds. Johns Hopkins University Press, Baltimore, 1977. x, 218 pp. \$14.

Subharmonic Functions. Vol. 1. W. K. Hayman and P. B. Kennedy. Academic Press, New York, 1976. xviii, 284 pp. \$25.50. *L. M. S. Monographs, 9. To order this book circle No. 448 on Readers' Service Card.*

A Technology of Reading and Writing. Vol. 2, Criterion-Referenced Tests for Reading and Writing. Judith M. Smith, Donald E. P. Smith, and James R. Brink. Academic Press, New

York, 1977. xii, 280 pp. \$12.50. *Educational Psychology. To order this book circle No. 449 on Readers' Service Card.*

Topics in Enzyme and Fermentation Biotechnology. Vol. 1. Alan Wiseman, Ed. Horwood, Chichester, England, and Halsted (Wiley), New York, 1977. 192 pp., illus. \$25. *To order this book circle No. 450 on Readers' Service Card.*

A Treatise on Dinitrogen Fixation. R. W. F. Hardy, Ed. Section 4, Agronomy and Ecology. A. H. Gibson, Ed. Wiley-Interscience, New York, 1977. xiv, 528 pp. \$31. *To order this book circle No. 473 on Readers' Service Card.*

Tree Rings and Climate. H. C. Fritts. Academic Press, New York, 1976. xiv, 568 pp., illus. \$35. *To order this book circle No. 472 on Readers' Service Card.*

You'll still
be using this
water bath
shaker after
others have come
and gone

Originally introduced 25 years ago, the G76 is still being made to the same precision standards which have assured its continued acceptance as a dependable research tool. A triple-eccentric drive transmission imparts smooth, uniform agitation in a wide range of speeds for applications which require continuous operation, 24 hours a day, day-in and day-out. Precise controls assure reproducible conditions of temperature and agitation. The G76 is the workhorse of laboratory water bath shakers—thousands in use today and every day. If you need dependable performance rely on NBS.



Send for
New 40 Page
Catalog
G 76-S/677



NEW BRUNSWICK SCIENTIFIC CO., INC.

P.O. BOX 986 • 44 TALMADGE ROAD, EDISON, NEW JERSEY 08817

At NBS Advanced Technology is a Way of Life