

ries in rearrangement collisions (including exchange). The definition of the Glauber approximation within the eikonal series is never really given; thus in the prescription of the recent Byron-Joachain eikonal Born series method one really does not know what f_{G_3} is.

One wonders for what audience the book is intended. As a book of self-study for the student, it is not sufficiently detailed or complete. It will be more useful as an outline accompanying a set of lectures, but it will rely heavily on the subsidiary material the lecturer will bring to bear. For the working scientist it will be a valuable guide, provided that he or she is aware of its selectivity and its several (but on the whole minor) shortcomings. I myself will be happy to have this book for reference.

AARON TEMKIN

Laboratory for Astronomy and Solar Physics, NASA/Goddard Space Flight Center, Greenbelt, Maryland 20771

Hydromechanics of Swimming

Nekton. YU. G. ALEYEV. Junk, The Hague, 1977. vi, 436 pp., illus. Dfl. 120.

Functional-morphology ideas and observations from Eastern countries, particularly the U.S.S.R., are poorly incorporated into Western literature. Publications by Aleyev have been valuable to aquatic biologists, especially ichthyologists, in partly rectifying the situation. *Nekton* is no exception. If anything, the book should be more useful because Aleyev attempts to provide a broad, comprehensive account of adaptations for a particular way of life among animals from 12 classes. Within the limits of a single volume Aleyev succeeds in reaching his objective.

Nekton are animals in the water column capable of swimming at sustained speeds where inertial (pressure) forces dominate flow for fusiform fishlike bodies. The ratio of inertial forces to viscous (frictional) forces is traditionally expressed by Reynolds number (Re), which takes into account physical properties of water (viscosity, μ , and density, ρ), animal length, L , and velocity, V . Then $Re = \rho LV/\mu$, and nekton are defined as those organisms for which $Re > 5 \times 10^3$. Biologically, an increase in Reynolds number is associated with trends in body form away from adaptations to minimize sinking speed by maximizing hydrodynamic drag and trends toward adaptations to maximize swimming speed by minimizing locomotor

drag. Typical nekton (eunekton) are further defined as swimming with $Re > 10^5$ when flow in the entrained boundary layer tends to become turbulent. Aleyev believes these Re present the greatest problems in minimizing drag and the greatest potential for boundary layer control. In the Re range from 5×10^3 to 10^5 planktonekton are defined. Two additional nektonic types are defined in terms of their affinities for submerged surfaces (benthonekton) or land (xeronekton).

Fish dominate the nekton. Therefore the book serves partly to update Aleyev's *Function and Gross Morphology in Fish* (1963; English translation, National Technical Information Service TT67-51391, 1969). This work on fish provides the principles for a general study of convergent adaptations for nektonic life in representatives of Cephalopoda, Sagittoidea, Amphibia, Reptilia, Aves, Mammalia, and six classes of fishes. Crustacea are not mentioned, although portunid crabs can sustain speeds when $Re > 10^5$ (Lochhead, in *Scale Effects in Animal Locomotion*, T. J. Pedley, Ed., Academic Press, 1977).

The definitions of nekton emphasize adaptations for swimming and drag reduction. Morphological adaptations for swimming are interpreted mainly through steady-state hydrodynamic theory for rigid bodies. In the United States and Britain, major advances in interpretation of body form and swimming have come through application of slender-body theory to swimming fishlike bodies. This approach emphasizes development of thrust and Froude efficiency and leads to some conclusions differing from those given by Aleyev. For example, Aleyev regards an eel as having a higher hydrodynamic swimming efficiency than a scombroid fish at sustained speeds because the eel has a relatively larger surface area. According to calculations of Lighthill (*J. Fluid Mech.* **44**, 265 [1970]) and Wu (*Adv. Appl. Math.* **11**, 1 [1971]), improved swimming efficiency might be expected with evolution of scombroid body form and locomotor movements. Most advances following from application of slender body theory to fish locomotion have come relatively recently, and the literature covering them is not discussed. Papers from Western sources more recent than 1971 do not appear to have been available to Aleyev during the preparation of the book. The most up-to-date source for this literature is Pedley's *Scale Effects in Animal Locomotion*, cited above.

Although adaptations for swimming and drag reduction are well represented, about 45 percent of the text discusses

other adaptations, providing a well-rounded view of nekton as a group. Buoyancy control is discussed in detail. Adaptations for maneuver, defense, camouflage, and senses are considered, as well as origins and geographic distribution of nekton. Principles established for extant forms are applied regularly to extinct animals. Changes in functional morphology during ontogeny are discussed in each chapter.

The book contains a wealth of data, primarily for morphological parameters, but Aleyev's coverage of Western literature is not much better than the usual Western coverage of Eastern literature. As a result, his account of observations sometimes becomes a catalogue from Russian sources, others being rejected. This is most apparent in the discussion of animal density. Only Aleyev's data and a few other Eastern sources are cited, the remainder being rejected on the grounds of differences in method. The basic method Aleyev describes for calculating density is from fish mass and volume, the latter measured by water displacement. The same or comparable methods are widely used in the rejected sources. Nevertheless, the data Aleyev presents are not readily available outside the U.S.S.R., and his book will be a valuable source for those working on the various groups of animals it deals with.

P. W. WEBB

School of Natural Resources,
University of Michigan,
Ann Arbor 48109

Books Received

Advances in Applied Mechanics. Vol. 17. Chia-Shun Yih, Ed. Academic Press, New York, 1977. viii, 390 pp., illus. \$43.

Air Pollution Measurement Techniques. Proceedings of a conference, Gothenburg, Oct. 1976. World Meteorological Organization, Geneva, 1977 (U.S. distributor, Unipub, New York). xii, 224 pp., illus. Paper, \$19. Special Environmental Report No. 10.

Algorithms for the Computation of Mathematical Functions. Yudell L. Luke. Academic Press, New York, 1977. xiv, 284 pp. \$15.

Analysis of Species-Specific Molar Adaptations in Strepsirhine Primates. Daniel Seligsohn. Karger, Basel, 1977. viii, 116 pp., illus. Paper, \$22.25.

Analytical Applications of NMR. D. E. Leyden and R. H. Cox. Wiley-Interscience, New York, 1977. xii, 456 pp., illus. \$27.50. Chemical Analysis, vol. 48.

An Anatomy of Risk. William D. Rowe. Wiley-Interscience, New York, 1977. xiv, 488 pp., illus. \$26.95. Wiley Series on Systems Engineering and Analysis.

Annual Reports in Medicinal Chemistry. Vol. 12. Frank H. Clarke, Ed. Academic
(Continued on page 697)

BOOKS RECEIVED

(Continued from page 678)

Press, New York, 1977. xii, 340 pp., illus. Paper, \$14.

Applied Biology. Vol. 2. T. H. Coaker, Ed. Academic Press, New York, 1977. x, 272 pp., illus. \$19.25.

Arachnida. Theodore Savory. Academic Press, New York, ed. 2, 1977. xii, 340 pp., illus. \$21.15.

Contemporary Quantum Chemistry. An Introduction. J. Goodisman. Plenum, New York, 1977. xii, 376 pp., illus. \$32.50.

Copper. Its Geology and Economics. Robert Bowen and Ananda Gunatilaka. Halsted (Wiley), New York, 1977. xii, 366 pp., illus. \$49.50.

Crowd Action in Revolutionary Massachusetts, 1765-1780. Dirk Hoerder. Academic Press, New York, 1977. xvi, 396 pp., illus. \$19.50. Studies in Social Discontinuity.

Design of Biopharmaceutical Properties through Prodrugs and Analogs. Papers from a symposium, Orlando, Fla., Nov. 1976. Edward B. Roche, Ed. American Pharmaceutical Association, Washington, D.C., 1977. viii, 456 pp., illus. \$20.

The Determination of Sulphur-Containing Groups. Vol. 3, Analytical Methods for Sulphides and Disulphides. M. R. F. Ashworth. Academic Press, New York, 1977. xii, 220 pp. \$21.50. The Analysis of Organic Materials, vol. 2.

Development and Differentiation in the Cellular Slime Moulds. Proceedings of a workshop, Porto Conte, Sardinia, Apr. 1977. P. Cappuccinelli and J. M. Ashworth, Eds. Elsevier/North-Holland, New York, 1977. xx, 318 pp., illus. \$39.75. Developments in Cell Biology, vol. 1.

Dukes' Physiology of Domestic Animals. Melvin J. Swenson, Ed. Comstock (Cornell University Press), Ithaca, N.Y., ed. 9, 1977. xii, 914 pp., illus. \$32.50.

Earth Materials and Earth Processes. An Introduction. Lynn S. Fichter and George T. Farmer, Jr. Burgess, Minneapolis, ed. 2, 1977. viii, 262 pp., illus. + maps. Spiral bound, \$8.95.

Electron Spectroscopy. Theory, Techniques and Applications. Vol. 1. C. R. Brundle and A. D. Baker, Eds. Academic Press, New York, 1977. xvi, 460 pp., illus. \$46.90.

Electronic Meters. Techniques and Troubleshooting. Miles Ritter-Sanders, Jr. Reston (Prentice-Hall), Reston, Va., 1977. xii, 300 pp., illus. \$16.95.

Ethnobotanical Techniques and Approaches at Salmon Ruin, New Mexico. Vorsila L. Bohrer and Karen R. Adams. Eastern New Mexico University, Portales, 1977. xx, 220 pp., illus. Paper, \$6.95. San Juan Valley Archaeological Project Technical Series No. 2. Eastern New Mexico University Contributions in Anthropology, vol. 8, No. 1.

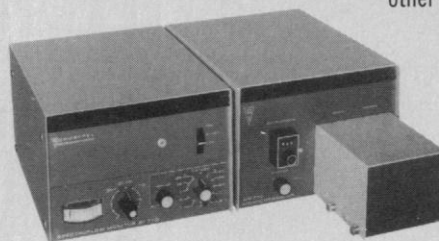
Experimental Psychology. Theory and Practice. Philip J. Dunham. Harper and Row, New York, 1977. xviii, 488 pp., illus. \$13.95. Harper's Experimental Psychology Series.

Facing Up to Modernity. Excursions in Society, Politics, and Religion. Peter L. Berger. Basic, New York, 1977. xx, 234 pp. \$11.50.

Festkörperprobleme XVII. Advances in Solid State Physics. Papers from a meeting, Münster, Germany, Mar. 1977. J. Treusch, Ed. Vieweg, Braunschweig, Germany, 1977. xviii, 410 pp., illus. DM 98.

Fighting Infection. Conquests of the Twentieth Century. Harry F. Dowling. Harvard University Press, Cambridge, Mass., 1977.

The only thing variable about the SF 770 Spectroflow Monitor for liquid chromatography ...is the wavelength!



24 BOOKER STREET, WESTWOOD, NEW JERSEY 07675
(201) 664-7263

- It consistently offers highest sensitivity with low noise and baseline drift.
- It classically follows Beer's law in its measurements.
- It routinely includes an automatic gain control and zero suppression.
- It equally interfaces with all Liquid Chromatography systems.
- It inconspicuously takes up very little room.
- It uniquely incorporates a double-beam design.
- It invariably is an honest instrument, not relying on gimmicks to achieve unrealistic specs.
- It indubitably is preferred by more liquid chromatographers than all other models combined.

Call or write now!

SCHOEFFEL
INSTRUMENT CORPORATION

Circle No. 179 on Readers' Service Card

Our compact MM-33 micromanipulator drives by hand or motorized 'joy stick'.

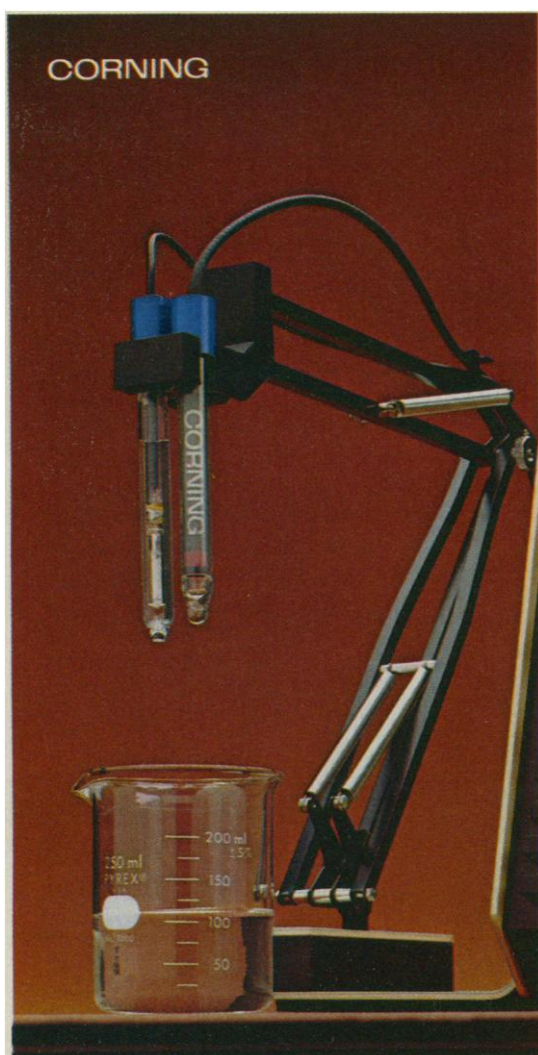


Ideal for working at magnifications up to 250X, the MM-33 provides coarse movements in 3 planes (XYZ) plus fine movement in the thrust axis. Excursions calibrated in millimeters with vernier readings to 0.1 mm; final drive calibrated to 10 microns. Ball-bearing raceways assure smooth, backlash-free operation. All controls aligned in same vertical plane permits use of several MM-33's side by side. Mounts on Flexbar or a variety of bases.

Also available in a motorized version (MM-33M), with 'Joy Stick' remote unit for vibration-free control of speed and direction. For literature, write: Brinkmann Instruments, Cantiague Rd., Westbury, N.Y. 11590.

Brinkmann
Micromanipulators

Circle No. 103 on Readers' Service Card



THE WAY WE HANDLE CORNING™ ELECTRODES OUGHT TO TELL YOU HOW WE FEEL ABOUT CORNING ELECTRODES

When we originated the Tall Meter we changed everything we had ever done with pH meters **except the electrodes.**

We did change the sidearm to make them easier to use than ever before.

We did **not** change the triple-purpose glass membrane we use on all our electrodes, insuring a broad pH measurement range and the ability to function in varied temperatures.

We did **not** change the warranty. You still get a full six months to work with them under lab conditions. Any functional error and we replace them without cost to you. It's still in writing.

New. We've prepared a new catalog to tell just why Corning electrodes are the best you can use with our meters or anyone else's. Write for a copy. Science Products Division, Corning Glass Works, Corning, N.Y. 14830



- General-purpose workhorse for routine determinations.
- Calomel internal reference, fiber junction for good KCl flow rate.
- Semi-micro combination measures samples as low as 0.3 ml.
- Rugged bulb combination has ceramic junction for stable readings.

CORNING™
pHware

xii, 340 pp. \$15. A Commonwealth Fund Book.

Finite Element Programming. E. Hinton and D. R. J. Owen. Academic Press, New York, 1977. xiv, 306 pp., illus. \$23. Computational Mathematics and Applications.

First Course in Rings, Fields and Vector Spaces. P. B. Bhattacharya and S. K. Jain. Halsted (Wiley), New York, 1977. xii, 238 pp., illus. \$6.95.

For the Director: Research Essays in Honor of James B. Griffin. Charles E. Cleland, Ed. University of Michigan Museum of Anthropology, Ann Arbor, 1977. xvi, 362 pp., illus. Paper, \$6.50. Anthropological Papers, No. 61.

Genetics of Human Cancer. Papers from a conference. John J. Mulvihill, Robert W. Miller, and Joseph F. Fraumeni, Jr., Eds. Raven, New York, 1977. xxii, 520 pp., illus. \$20. Progress in Cancer Research and Therapy, vol. 3.

Genetics Study Guide. Marie E. Conklin and Daniel L. Hartl. Lippincott, Philadelphia, 1977. viii, 296 pp., illus. Paper, \$5.95.

Grasshoppers and Locusts. A Handbook of General Acridology. Vol. 2, Behaviour, Ecology, Biogeography, Population Dynamics. Boris Uvarov. Centre for Overseas Pest Research, London, 1977. x, 614 pp., illus. \$40.

Handbook of Interactive Computer Terminals. Duane E. Sharp. Reston (Prentice-Hall), Reston, Va., 1977. vi, 266 pp., illus. \$17.95.

Herbicides and Fungicides. Factors Affecting Their Activity. Proceedings of a symposium, Bangor, Wales, Sept. 1976. N. R. McFarlane, Ed. Chemical Society, London, 1977. xii, 142 pp., illus. Paper, \$15. Special Publication No. 29.

How to Prepare a Research Proposal. Suggestions for Those Seeking Funds for Behavioral Science Research. David R. Krathwohl. Published by the author, Syracuse, N.Y., ed. 2, 1977 (available from Syracuse University Bookstore, Syracuse, N.Y.). 112 pp. Paper, \$2.95.

Human Emotions. Carroll E. Izard. Plenum, New York, 1977. xvi, 496 pp., illus. \$25. Emotions, Personality, and Psychotherapy.

Images, Perception, and Knowledge. Papers from a workshop, London, Ontario, Canada, May 1974. John M. Nicholas, Ed. Reidel, Boston, 1977. x, 310 pp., illus. \$38. The University of Western Ontario Series in Philosophy of Science, vol. 8.

Immunochemistry of Proteins. Vol. 2. M. Z. Atassi, Ed. Plenum, New York, 1977. xx, 438 pp., illus. \$44.50.

International Cell Biology, 1976-1977. Papers from a congress, Boston, Sept. 1976. B. R. Brinkley and Keith R. Porter, Eds. Rockefeller University Press, New York, 1977. xvi, 694 pp., illus. \$30.

The Logical Flaws of Einstein's Relativity. Leonard Parish. Cortney Publications, Luton, England, 1977. viii, 172 pp., illus. £6.50.

Mathematical Models for the Study of the Reliability of Systems. A. Kaufmann, D. Grouchko, and R. Cruon. Translated from the French edition (Paris, 1974). Academic Press, New York, 1977. x, 222 pp., illus. \$18.50. Mathematics in Science and Engineering, vol. 124.

Mechanics of Fluids. R. A. Duckworth. Longman, New York, 1977. x, 276 pp., illus. Paper, \$11.50. Introductory Engineering Series.

Primary Prevention of Psychopathology. Vol. 1, The Issues. Papers from a conference, Burlington, Vt. George W. Albee and Justin M. Joffe, Eds. Published for the University of Vermont by the University Press of New En-

gland, Hanover, N.H., 1977. xiv, 426 pp. \$20.

Principles of Isotope Geology. Gunter Faure. Wiley, New York, 1977. xii, 464 pp., illus. \$19.95. Smith and Wyllie Intermediate Geology Series.

Proceedings of the Conference on Stochastic Differential Equations and Applications. Park City, Utah, Feb. 1976. J. David Mason, Ed. Academic Press, New York, 1977. x, 254 pp. \$10.50.

Psychopathology. Experimental Models. Jack D. Maser and Martin E. P. Seligman, Eds. Freeman, San Francisco, 1977. xiv, 474 pp., illus. Cloth, \$17.95; paper, \$8.95.

Psychopharmacology. From Theory to Practice. Jack D. Barchas, Philip A. Berger, Roland D. Ciaranello, and Glen R. Elliott, Eds. Oxford University Press, New York, 1977. xxiv, 558 pp., illus. Cloth, \$17.95; paper, \$10.95.

Pulsars. Richard N. Manchester and Joseph H. Taylor. Freeman, San Francisco, 1977. xiv, 282 pp., illus. \$19.95. A Series of Books in Astronomy and Astrophysics.

Punishment. Gary C. Walters and Joan E. Grusec. Freeman, San Francisco, 1977. xvi, 302 pp. Cloth, \$14; paper, \$5.95. A Series of Books in Psychology.

The Pursuit of Nature. Informal Essays on the History of Physiology. A. L. Hodgkin, A. F. Huxley, W. Feldberg, W. A. H. Rushton, R. A. Gregory, and R. A. McCance. Cambridge University Press, New York, 1977. vi, 180 pp., illus. \$15.95.

The Race Bomb. Skin Color, Prejudice, and Intelligence. Paul R. Ehrlich and S. Shirley Feldman. Quadrangle (New York Times), New York, 1977. xiv, 208 pp., illus. \$9.95.

Radar Probing of the Auroral Plasma. Proceedings of a summer school, Tromsø, Norway, June 1975. Asgeir Brekke, Ed. Universitetsforlaget, Oslo, Norway, 1977 (U.S. distributor, Columbia University Press, New York). 464 pp., illus. Paper, \$28.

Rare Gas Solids. Vol. 2. M. L. Klein and J. A. Venables, Eds. Academic Press, New York, 1977. xiv + pp. 609-1252, illus. \$50.75.

Rays of Hope. The Transition to a Post-Petroleum World. Denis Hayes. Norton, New York, 1977. 240 pp. Cloth, \$9.95; paper, \$3.95. A Worldwatch Institute Book.

A Reassessment of the Concept of Criminality. An Analysis of Criminal Behavior in Terms of Individual and Current Environment Interaction: The Application of a Stochastic Model. Eggert Petersen. Munksgaard, Copenhagen, and Halsted (Wiley), New York, 1977. 136 pp. \$32.50.

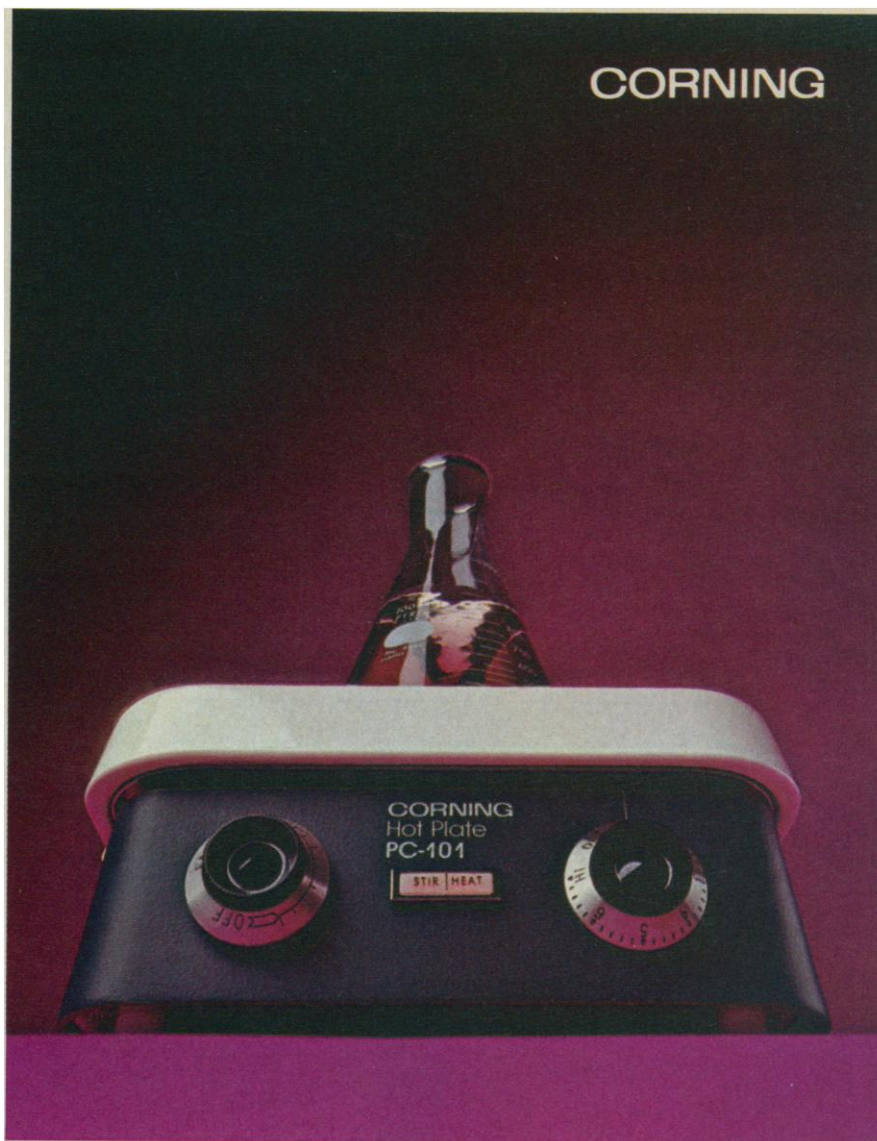
Red and Expert. Education in the People's Republic of China. Ruth Gamberg. Schocken, New York, 1977. xviii, 300 pp., illus. loth, \$13.50; paper, \$6.95.

The Relevance of Biomedical Engineering to Dentistry. Proceedings of a workshop, Bethesda, Md., Feb. 1976. Ernst Attinger and Paul Parakkal, Eds. National Institute of Dental Research, Bethesda, Md., 1977. x, 176 pp., illus. Paper. DHEW Publication No. (NIH) 77-1198.

Science Fiction Handbook, Revised. A Guide to Writing Imaginative Literature. L. Sprague de Camp and Catherine Crook de Camp. McGraw-Hill, New York, 1977. xii, 220 pp. Paper, \$3.95.

The Scientific Analysis of Personality and Motivation. R. B. Cattell and P. Kline. Academic Press, New York, 1977. xii, 386 pp. \$22.50. Personality and Psychopathology, 17.

Sea Water. Cycles of the Major Elements. James I. Drever, Ed. Dowden, Hutchinson



BIG TOP CREATES BIG STIR

• 100 SQUARE INCH TOP. NOW WITH STIRRER.

• Stirs 100 to 900 r.p.m. With or without heat.

• 10" x 10" surface. Holds big vessels.

• Fast, accurate heat. Fast heat-up. Fast cool-down.

• Overhang protects insides.

• PYROCERAM® glass-ceramic top. Inert. Impervious. Stays white.

• Nylon feet. Very quiet. Very smooth.

• Infinite variable control. LO to HI.

• Big, easy-to-read knobs.

NEW HOT PLATE/STIRRER, MODEL PC-101. Order from your distributor. Or call or write for the name of the distributor nearest you: 607-974-4126. Science Products Division, Corning Glass Works, Corning, New York 14830

CORNING®
hotware

and Ross, Stroudsburg, Pa., 1977 (distributor, Halsted [Wiley], New York). xvi, 346 pp., illus. \$28. Benchmark Papers in Geology, vol. 45.

The Seaweed Handbook. An Illustrated Guide to Seaweeds from North Carolina to the Arctic. Thomas F. Lee. Illustrated by Wendy Webster. Mariners Press, Boston, 1977. vi, 218 pp. \$16.50.

The Self and the Other. The Irreducible Element in Man. Part 1, The 'Crisis of Man.' Papers from a conference, Fribourg, Switzerland, Jan. 1975. Anna-Teresa Tymieniecka, Ed. Reidel, Boston, 1977. xii, 188 pp. \$24. *Analecta Husserliana*, vol. 6.

Settlement and Subsistence along the Lower Chaco River. The CGP Survey. Charles A. Reher, Ed. University of New Mexico Press, Albuquerque, 1977. xii, 614 pp., illus. \$15.

Snowmelt Runoff Processes in a Subarctic Area. Anthony G. Price. McGill University Department of Geography, Montreal, 1977. xi, 106 pp. Paper, \$8.50. McGill Sub-Arctic Research Paper No. 29. Climatological Research Series No. 10.

Social Assessment Manual. A Guide to the Preparation of the Social Well-Being Account for Planning Water Resource Projects. Ste-

phen J. Fitzsimmons, Lorrie I. Stuart, and Peter C. Wolff. Westview Press, Boulder, Colo., 1977. xvi, 290 pp. \$16. Abt Associates Studies in Applied Social Research. Westview Special Studies in Natural Resources and Energy Management.

The Spontaneous Generation Controversy from Descartes to Oparin. John Farley. Johns Hopkins University Press, Baltimore, 1977. xiv, 226 pp. \$13.50.

The Steam Engine of Thomas Newcomen. L. T. C. Rolt and J. S. Allen. Moorland, Hartington, England, and Science History Publications (Neale Watson), New York, 1977. 160 pp., illus. \$15; prepaid, \$12.95.

Stochastic Programming. V. V. Kolbin. Translated from the Russian. Reidel, Boston, 1977. xii, 196 pp. \$26. Theory and Decision Library, vol. 14.

Strindberg and Van Gogh. An Attempt at a Pathographic Analysis with Reference to Parallel Cases of Swedenborg and Hölderlin. Karl Jaspers. Translated from the German edition by Oskar Grunow and David Woloshin. University of Arizona Press, Tucson, 1977. xiv, 220 pp. Cloth, \$12.50; paper, \$4.95.

Structured PL/ZERO plus PL/ONE. Michael Kennedy and Martin B. Solomon. Pren-

tice-Hall, Englewood Cliffs, N.J., 1977. xxxvi, 696 pp., illus. Paper, \$10.95.

The Study of the Future. An Introduction to the Art and Science of Understanding and Shaping Tomorrow's World. Edward Cornish. World Future Society, Washington, D.C., 1977. x, 308 pp. Paper, \$9.50.

Stuttering. The Disorder of Many Theories. Gerald Jonas. Farrar, Straus and Giroux, New York, 1977. viii, 68 pp. Cloth, \$7.95; paper, \$2.95.

Surgeon to Washington. Dr. John Cochran (1730-1807). Morris H. Saffron. Columbia University Press, New York, 1977. xiv, 302 pp., illus. \$17.50.

Survey and Opinion Research. Procedures for Processing and Analysis. John A. Sonquist and William C. Dunkelberg. Prentice-Hall, Englewood Cliffs, N.J., 1977. x, 502 pp., illus. \$19.95.

Terzo Incontro sui Problemi Agronomici dell'Irrigazione. Rome, Jan. 1974. Consiglio Nazionale delle Ricerche, Rome, 1977. 412 pp., illus. Paper, \$18. Quaderni de "La Ricerca Scientifica," 99.

A Theory of Education. Joseph D. Novak. Cornell University Press, Ithaca, N.Y., 1977. 296 pp. \$15.

The Theory of Gambling and Statistical Logic. Richard A. Epstein. Academic Press, New York, ed. 2, 1977. xvi, 450 pp., illus. \$19.50.

Topics in Antibiotic Chemistry. Vol. 1, Aminoglycosides and Ansamycins. P. G. Sammes, Ed. Horwood, Chichester, England, and Halsted (Wiley), New York, 1977. iv, 218 pp., illus. \$28.50.

Toxic Substances and Trade Secrecy. Proceedings of a conference, Coolfont, W.Va., Feb. 1977. Technical Information Project, Washington, D.C., 1977. iv, 116 pp., illus. Paper.

Trace Analysis of Atmospheric Samples. Kikuo Oikawa. Kodansha, Tokyo, and Halsted (Wiley), New York, 1977. viii, 158 pp., illus. \$22.50.

Trace-Element Contamination of the Environment. David Purves. Elsevier, New York, 1977. xii, 260 pp. \$34.75. *Fundamental Aspects of Pollution Control and Environmental Science* 1.

Treatise on Basic Philosophy. Vol. 3, Ontology I: The Furniture of the World. Mario Bunge. Reidel, Boston, 1977. xvi, 354 pp., illus. Cloth, \$39.50; paper, \$22.

Treatise on Materials Science and Technology. Herbert Herman, Ed. Vol. 10, Properties of Solid Polymeric Materials. Part B. J. M. Schultz, Ed. Academic Press, New York, 1977. xiv + pp. 453-786, illus. \$34.50.

The Universe. Its Beginning and End. Lloyd Motz. Scribner, New York, 1977. xiv, 344 pp., illus. + plates. Paper, \$4.95. Reprint of the 1975 edition. Scribner Library, SL 726.

The Unsettling of America. Culture and Agriculture. Wendell Berry. Sierra Club Books, San Francisco, 1977. xii, 228 pp. \$9.95.

The Versatile Satellite. Richard W. Porter. Oxford University Press, New York, 1977. viii, 174 pp., illus. \$11.

Whither China. The View from the Kremlin. Morris Rothenberg. University of Miami Center for Advanced International Studies, Washington, D.C., 1977. xxii, 312 pp. Cloth, \$12.95; paper, \$8.95. *Monographs in International Affairs*.

World Food Prospects and Agricultural Potential. Marilyn Chou, David P. Harmon, Jr., Herman Kahn, and Sylvan H. Wittwer. Praeger, New York, 1977. xvi, 320 pp. \$20. *Praeger Special Studies in International Economics and Development*.



Check Your Project Then Call Us



Minipig

- ☐ Vital Organs
- ☐ Drug Toxicity
- ☐ Irradiation
- ☐ Nutritional Studies
- ☐ Teratological Studies
- ☐ Gastric Secretion
- ☐ Ulcer Formation
- ☐ Cardiovascular Studies
- ☐ Central Nervous System
- ☐ Dermatological Research
- ☐ Dental Research
- ☐ Aging Process
- ☐ Thermal and Metabolic Comparison

Vita Vet Laboratories, Inc.

BOX 587

MARION, INDIANA 46952

317-668-8988