for Septomyxa affinis, or the 6- to 8page listings for the likes of Streptomyces roseochromogenes, Rhizopus nigricans, and Curvularia lunata.

A very interesting summary of information, showing the taxonomic distribution according to genus for the the various hydroxylations and for  $\Delta^{1}$ dehydrogenation, is sandwiched between tables 1 and 2, but should not be ignored. It is most impressive that one can see at a glance the listing of no fewer than 77 genera that have been reported to carry out  $11_{\alpha}$ -hydroxylation, or the listing of 41 genera, representing 14 orders in seven classes, that have been shown to  $\Delta^{1}$ -dehydrogenate steroids.

Unfortunately, the magnitude of the task forced the authors to limit their tabulations to information in the literature only through 1963. They counter this shortcoming, however, by including a remarkably effective annotated bibliographical appendix. The subject matter is updated well into 1967 by these 100 references and the descriptive comments made about each.

As is indicated by its title, Microbial Transformation of Steroids and Alkaloids by Iizuka and Naito has a somewhat broader scope. In addition to chapters on steroid hormones, bile acids, sterols, sapogenins, cardenolides, and bufadieniolides (all covered by Carney and Herzog), it includes brief chapters on the steroidal, ergot, indole, and morphine alkaloids and nicotine. It is one of the few available sources that summarize information on microbial transformations of the latter compounds. Each chapter lists, by type of reaction, many of the microbial transformations that have been reported. There are helpful author, microorganism, and substance indexes.

Although the Japanese book purports to summarize data accumulated up to 1966, a great deal of information in American journals and patents between 1960 and 1966 is not represented. Moreover, there are inexplicable gaps in the coverage. For example, the authors refer to the  $15\alpha$ -hydroxylation of estrone and of estradiol by Fusarium moniliforme (J. Org. Chem. 29, 2731) but they apparently missed an earlier paper in the same volume of the same journal (p. 1333) that reports the same reaction (with other organisms). Moreover, the latter paper also refers to  $6\beta$ - and  $7\alpha$ hydroxylations of estrone and estradiol, examples of which are not presented by Iizuka and Naito. The coverage of the A-norsteroids provides another ex-

ample. Although a few transformations are listed, others, several of which had been published earlier, do not appear. Many other gaps in their coverage could be cited, including some in the chapters on alkaloids.

A shortcoming common to the books is their inability to provide readily a listing of all the reported transformations for any particular compound. If one wanted, for example, to find references to all the known transformations of progesterone, the index of the Japanese book lists 49 pages that would have to be examined. The Charney and Herzog book does not have an index of substrates to turn to for this kind of information.

Although a few of the structures in Charney and Herzog's book have lost one angular methyl group or another somewhere along the line (see, for example, pp. 50, 57, 63), there are remarkably few errors apparent in either volume.

The Charney and Herzog book can be considered indispensable to anyone seriously interested in any aspect of the microbial transformations of steroids. For those whose requirements for comprehensive coverage are not stringent, or for those whose interests include the alkaloids, the Iizuka and Naito volume serves a useful purpose.

ALLEN I. LASKIN Department of Microbiology, Squibb Institute for Medical Research, New Brunswick, New Jersey

#### **Nuclear Instrumentation**

Nuclear Structure. Based on lectures given at the International Seminar on Low-Energy Nuclear Physics, Dacca, East Pakistan, Jan. 1967. ANWAR HOSSAIN, HARUN-AR-RASHID, and MIZANUL ISLAM, Eds. North-Holland, Amsterdam; Interscience (Wiley), New York, 1967. xiv + 342 pp., illus. \$17.

In January of 1967, a seminar on low-energy nuclear physics was held at the Atomic Energy Centre in Dacca, East Pakistan. Many eminent physicists attended. The 16 invited papers are published in this book.

About half of these papers are descriptions of modern tools of experimental nuclear physics: cyclotrons, Van der Graaf accelerators, semiconductor detectors, time-of-flight apparatus, and the like. Each author is the type of experimenter who really understands how his equipment works, as opposed to the fellow whose concern is only to use the equipment to do an experiment. I think this is a useful survey of the current state of nuclear instrumentation. It would serve as excellent supplementary reading in a graduate-level course in nuclear physics. However, it is misleading to give the title *Nuclear Structure* to a book so largely devoted to experimental technique.

Several other articles could be described as reviews of branches of nuclear theory related to the interpretation of nuclear reaction experiments. The remainder of the book consists of research papers on rather specific subjects. I believe that these papers would be more appropriate in the research journals. There they would be accessible to a larger audience, and would be more easily located in future literature searches.

At the seminar itself, the invited papers were followed by questions and discussion. It is unfortunate that none of these are included in this volume. Other papers contributed to the seminar will appear in a special issue of *Nuclear Science and Applications*, published from the Atomic Energy Centre in Dacca.

BENJAMIN F. BAYMAN School of Physics and Astronomy, University of Minnesota, Minneapolis

#### **Books Received**

Actualités de Phytochimie Fondamentale. Troisième Série. C. Mentzer, O. Fatianoff, and C. Deschamps-Vallet. Masson, Paris, 1968. vi + 336 pp., illus. Paper, 180 F.

Advanced General Microbiology. Laboratory Methods. Robert G. Eagon. Burgess, Minneapolis, 1968. iv + 85 pp., illus. Paper.

Advances in Catalysis and Related Subjects. Vol. 18. D. D. Eley, Herman Pines, and Paul B. Weisz, Eds. Academic Press, New York, 1968. xvi + 416 pp., illus. \$18.50.

Advances in Chemical Engineering. Vol. 7. Thomas B. Drew, Giles R. Cokelet, John W. Hoopes, Jr., and Theodore Vermeulen, Eds. Academic Press, New York, 1968. xiv + 413 pp., illus. \$18.50.

Advances in Communication Systems. Theory and Applications. Vol. 3. A. V. Balakrishnan, Ed. Academic Press, New York, 1968. xiv + 209 pp., illus. \$11.50.

Advances in Comparative Physiology and Biochemistry. Vol. 3. O. Lowenstein, Ed. Academic Press, New York, 1968. xiv + 416 pp. \$18.

Advances in Food Research. Vol. 16. C. O. Chichester, E. M. Mrak, and G. F. Stewart, Eds. Academic Press, New York, 1968. x + 461 pp., illus. \$17.50.

(Continued on page 390)

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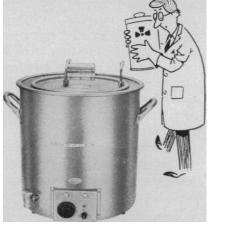
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#### BOOKS RECEIVED

(Continued from page 347)

Advances in Microcirculation. Vol. 1. H. Harders, Ed. Karger, Basel, 1968 (distributed in the U.S. by Phiebig, New York). 160 pp., illus. \$12.75.

Advances in Tuberculosis Research. Vol. 16. Georges Canetti, Hans Birkhäuser, and Hubert Bloch, Eds. Karger, Basel, 1968 (distributed in the U.S. by Phiebig, New York). vi + 232 pp., illus. \$15.10. Bibliotheca Tuberculosea, No. 24.

Advances in Veterinary Science. Vol. 12. C. A. Brandly and Charles E. Cornelius, Eds. Academic Press. New York, 1968. xvi - 438 pp., illus. \$18.50.

Advances in the Astronautical Sciences. Vol. 22, The Search for Extraterrestrial Life. Based on proceedings of the 12th annual meeting of the American Astronautical Society, Anaheim. Calif., May 1966. James Stephen Hanrahan, Ed. Scholarly Publications, Sun Valley, Calif., 1967. x - 378 pp., illus.

Annual Reports in Medical Chemistry, 1967. Sponsored by the Division of Medicinal Chemistry of the American Chemical Society. Cornelius K. Cain, Ed. Academic Press, New York, 1968. xxvi + 374 pp., illus. Paper, \$8.75.

Auto-eugenics and Sex Predetermination. S. S. Verdi. Kanwal, Pal. Chandigarh, India, 1968. vi + 124 pp., illus. Paper, Rs. 6.

**Barley Varieties-EBC.** G. Aufhammer, P. Bergal, A. Hagberg, F. R. Horne, and H. Van Veldhuizen. Composed under the auspices of the Barley Committee of the European Brewery Convention. Elsevier, New York. ed. 3, 1968. xlv + 156 pp., illus. \$16.50. Text in English, French, and German.

**Basic Principles of Sensory Evaluation.** American Society for Testing and Materials, Philadelphia, 1968. vi  $\pm$  106 pp., illus. Paper, \$5.75; 30 percent discount to members. ASTM Special Technical Publication No. 433.

**Bibliography of Pharmaceutical Refer**ence Literature. Magda Pasztor and Jenny Hopkins. Pharmaceutical Press, London, 1968. viii + 167 pp. Paper, 25 s.

A Bibliography of Translations from Mainland Chinese Periodicals in Chemistry, General Science and Technology published by U.S. Joint Publications Research Service, 1957–1966. Compiled by Amy C. Lee and D. C. Dju Chang for the Committee on Scholarly Communication with Mainland China. National Academy of Science, Washington, D.C., 1968. xviii + 161 pp. Paper.

**Big Bend Historic Sites.** G. Hubert Smith. Jerome E. Petsche. Ed. Smithsonian Institution River Basin Surveys, Lincoln, Neb. 1968. iv + 114 pp., illus. Paper. Publications in Salvage Archeology, No. 9.

**College Chemistry.** Leo H. Spinar. Scott, Foresman, Glenview, Ill., 1968. xiii + 448 pp., illus. \$8.50.

**Concepts of Science.** A Philosophical Analysis. Peter Achinstein. Johns Hopkins Press, Baltimore, 1968. xvi + 266 pp. \$8.95.

The Conservation of Norfolk Island. J. S. Turner, C. N. Smithers, and R. D. Hoogland. Australian Conservation Foundation, Australia, 1968. ii + 41 pp., illus. Paper. ACF Special Publication No. 1.

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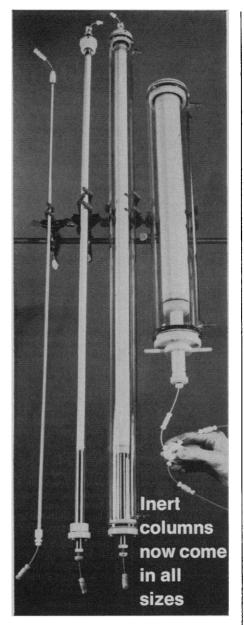
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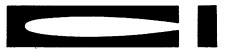
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Data Acquisition and Processing in Biology and Medicine. Vol. 5. Proceedings of a conference, Rochester, N.Y., 1966. Kurt Enslein, Ed. Pergamon, New York, 1968. x + 377 pp., illus. \$16.

The Design of Cam Mechanisms and Linkages. S. Molian. Elsevier, New York, 1968. viii + 285 pp., illus. \$9.

Die Dieselmaschine im Land- und Schiffsbetrieb. Siegfried Bock and Gunter Mau. Vieweg, Braunschweig, ed. 7, 1968. vi + 412 pp., illus. DM 48.

**Enzymes in Nucleic Acid Research.** Michel Privat de Barilhe. Hermann, Paris; Holden-Day, San Francisco, 1968. xiv + 393 pp., illus. \$16.25. Revised edition of *Les Nucléases* (Paris, 1964). Chemistry of Natural Products.

Fabrication of Thorium Fuel Elements. Prepared under the auspices of the American Society for Metals for the Division of Technical Information, U.S. Atomic Energy Commission. L. R. Weissert and G. Schileo. American Nuclear Society, Hinsdale, Ill., 1968. x + 208 pp., illus. \$11. Monograph Series on Metallurgy in Nuclear Technology.

Flora of the Queen Charlotte Islands. Part 1, Systematics of the Vascular Plants. James A. Calder and Roy L. Taylor. (xiv + 659 pp., illus. \$12.50 Canadian). Part 2, Cytological Aspects of the Vascular Plants. Roy L. Taylor and Gerald A. Mulligan. (xi + 148 pp., illus. \$7.50 Canadian). Canada Department of Agriculture. Ottawa, 1968 (available from the Queen's Printer, Ottawa). Canada Department of Agriculture Monograph No. 4.

Gene Control in the Living Cell. J. A. V. Butler. Basic Books, New York, 1968. x + 164 pp., illus. \$5.95.

Hospital Administration. Report of a WHO Expert Committee, Geneva, Oct. 1967. World Health Organization, Geneva, 1968 (distributed in the U.S. by Columbia University Press, New York). iv + 32 pp. Paper, \$1.

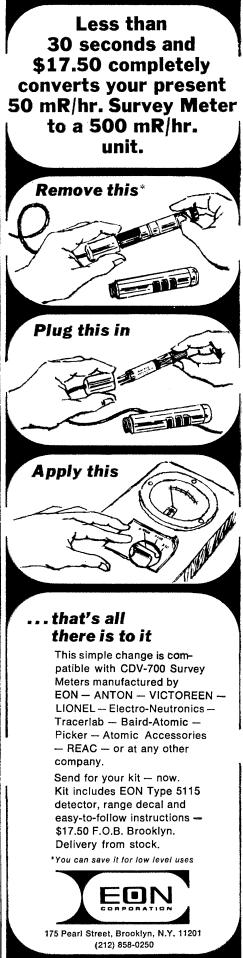
Human Respiration. A Programmed Course. Olof Lippold. Freeman, San Francisco, 1968. viii + 128 pp., illus. Paper, \$2.75.

Hyperfine Structure and Nuclear Radiations. Proceedings of a conference, Pacific Grove, Calif., Aug. 1967. E. Matthias and D. A. Shirley, Eds. North-Holland, Amsterdam: Interscience (Wiley), New York, 1968. xiv + 1097 pp., illus. \$25.

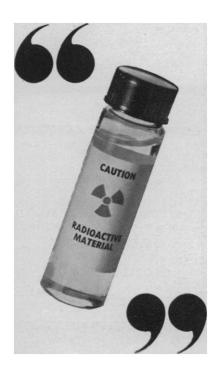
**IBRO Survey of Research Facilities and Manpower in the Brain Sciences in the United States.** Supervised by the Committee on Brain Sciences, Division of Medical Sciences, National Research Council. National Academy of Sciences, Washington, D.C., 1968. xliv + 314 pp. Paper.

Index to Air Pollution Research. A guide to Current Government and Industry Supported Air Pollution Research, July 1968. Patricia A. Burd. Center for Air Environment Studies, Pennsylvania State University, University Park, 1968. viii + 164 pp. Paper, \$2.

Introduction to Space Science. Written by the staff of the Goddard Space Flight Center. Wilmot N. Hess and Gilbert D. Mead, Eds. Gorden and Breach, New York, ed. 2, 1968. xviii + 1056 pp., illus.



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John Dalton and the Progress of Science. Papers presented to a conference, Manchester, England, Sept. 1966, to mark the bicentenary of Dalton's Birth. D. S. L. Cardwell, Ed. Manchester University Press, Manchester: Barnes and Noble, New York, 1968. xxii + 352 pp., illus. \$9.50. Laser Parameter Measurements Hand-

Laser Parameter Measurements Handbook. H. G. Heard. Wiley, New York, 1968. xiv + 489 pp., illus. \$15.95. Wiley Series in Pure and Applied Optics.

Ligand Reactivity and Catalysis. Mark M. Jones. Academic Press. New York, 1968. viii + 272 pp., illus. \$14.

Logic Design with Integrated Circuits. William E. Wickes. Wiley, New York, 1968. xvi + 249 pp., illus. \$9.95.

The McGraw-Hill Encyclopedia of Space. McGraw-Hill, New York, 1968. xii + 831 pp., illus. Through 31 Dec. 1968, \$23.95; thereafter, \$27.50.

Mécanismes Cérébraux du Langage Oral et Structure des Langues. R. Husson, J. Barbizet, J. Cauhépé. P. Debray, P. Laget, and A. Sauvageot. Masson, Paris, 1968. vi + 136 pp., illus. Paper, 44 F.

Medicine in Mexico. From Aztec Herbs to Betatrons. Gordon Schendel, with the collaboration of José Alvarez Amézquita and Miguel E. Bustamante. University of Texas Press. Austin, 1968. xxii + 329 pp., illus. \$6.50. Texas Pan American Series.

National Geographic Society Research Reports. Abstracts and reviews of research and exploration authorized under grants for the National Geographic Society during the year 1963. Paul H. Oehser, Ed. National Geographic Society, Washington, D.C., 1968. viii  $\pm$  351 pp., illus. \$5.

Navy Space Astronautics Orientation. U.S. Government Printing Office, Washington, D.C., 1967. viii + 226 pp., illus. Paper, \$1.50. NAVPERS 10488.

Negro and White Children. A psychological Study in the Rural South. E. Earl Baughman and W. Grant Dahlstrom. Academic Press, New York, 1968. xxiv + 572 pp., illus. \$15.

**Odour Description and Odour Classification**. A Multidisciplinary Examination. R. Harper, E. C. Bate Smith, and D. G. Land. Elsevier, New York, 1968. viii + 191 pp., illus. \$7.50.

**Organic Scintillators.** Proceedings of a symposium, Argonne, Ill., June 1966. Donald L. Horrocks, Ed. Gordon and Breach, New York, 1968. viii + 413 pp., illus. \$40; 20 percent discount for payment in advance.

The Packing of Solid Particles. W. A. Gray. Chapman and Hall, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). x + 134 pp., illus. \$5.50. Powder Technology Series.

**Particle Acceleration.** J. Rosenblatt. Methuen, London, 1968 (distributed in the U.S. by Barnes and Noble, New York). viii + 183 pp., illus. \$5.50. Methuen's Monographs on Physical Subjects.

**Personality, Power and Politics.** A Social Psychological Analysis of the Italian Deputy and His Parliamentary System. Gordon J. DiRenzo. University of Notre Dame Press, Notre Dame, Ind., 1968. xviii + 264 pp. \$7.95.

**Plant Virus Names.** An Annotated List of Names and Synonyms of Plant Viruses and Diseases. E. B. Martyn, Ed. Com-

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monwealth Mycological Institute, Kew, Surrey, England, 1968. x + 206 pp. Paper, 30 s. Commonwealth Mycological Institute Phytopathological Papers, No. 9.

**Political Science Annual.** An International Review. Vol. 1, 1966. James A. Robinson, Ed. Bobbs-Merrill, New York, 1968. xiv + 307 pp. \$7.50.

Principles of Applied Biomedical Instrumentation. L. A. Geddes and L. E. Baker. Wiley, New York, 1968. xvi + 480 pp., illus. \$13.50.

**Prison within Society.** A Reader in Penology. Lawrence E. Hazelrigg, Ed. Doubleday, Garden City, New York, 1968. xvi + 536 pp. \$7.95.

**Proceedings of the Fifteenth Southern** Water Resources and Pollution Control Conference. Raleigh, N.C., April 1966. Department of Civil Engineering, North Carolina State University, Raleigh, 1968. vi + 190 pp., illus. Paper, \$4.

**Progress in Phytochemistry.** Vol. 1. L. Reinhold and Y. Liwschitz, Eds. Interscience (Wiley), New York, 1968. x + 723 pp., illus. \$23.75.

Psychological Science and the Educational Enterprise. Burton G. Andreas. Wiley, New York, 1968. x + 103 pp., illus. Cloth, \$6.95; paper, \$3.95. The Psychology of Human Communi-

The Psychology of Human Communication. John Parry. Elsevier, New York, 1968. xiv + 248 pp. \$6.

The Psychology of Learning and Motivation: Advances in Research and Theory. Vol. 2. Kenneth W. Spence and Janet Taylor Spence, Eds. Academic Press, New York, 1968. xii + 249 pp., illus. \$10.50.

**Radiation Biology.** Alison P. Casarett. Prepared under the auspices of the American Institute of Biological Sciences for the Division of Technical Information, U.S. Atomic Energy Commission. Prentice-Hall, Englewood Cliffs, N.J., 1968. xiv + 368 pp., illus, \$9.25.

Readings in Psychological Tests and Measurements. W. Leslie Barnette, Jr., E. Dorsey, Homewood, Ill.; Irwin-Dorsey, Nobleton, Ontario, ed. 2, 1968. xii + 393 pp., illus. \$8.65. Dorsey Series in Psychology.

**Reduction**. Techniques and Applications in Organic Synthesis. Robert L. Augustine, Ed. Dekker, New York, 1968. x + 242pp., illus. \$12.75.

**Report on the Elevated-Temperature Properties of Selected Superalloys.** D. P. Moon, R. C. Simon, and R. J. Favor. American Society for Testing and Materials, Philadelphia, 1968. viii + 350 pp., illus. Paper, \$11. ASTM Data Series DS 7-S1.

Roads, Bridges, and Tunnels. Modern Approaches to Road Engineering. Michael Overman. Doubleday, Garden City, N.Y., 1968. vii + 191 pp., illus. \$5.95. Doubleday Science Series.

Rodd's Chemistry of Carbon Compounds. A Modern Comprehensive Treatise. S. Coffey, Ed. Vol. 2, Part B, Sixand Higher-Membered Monocyclic Compounds, Elsevier, New York, ed. 2, 1968. xvi + 463 pp., illus. \$27.

Science and Man. The Philosophy of Scientific Humanism. Tad S. Clements. Thomas, Springfield, Ill., 1968. xiv + 152 pp. \$9. American Lecture Series Publication No. 714.

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Selected Pharmacological Testing Methods. Alfred Burger, Ed. Dekker, New York, 1968. xiv + 515 pp., illus. \$23.75. Medicinal Research, Vol. 3.

The Side of the Angels. John Rowan Wilson. Doubleday, Garden City, New York, 1968. x + 348 pp. \$5.95. Social Facilitation and Imitative Behav-

Social Facilitation and Imitative Behavior. Outcome of the 1967 Miami University Symposium on Social Behavior. Edward C. Simmel, Ronald A. Hoppe, and G. Alexander Milton, Eds. Allyn and Bacon, Boston, 1968. xii + 253 pp., illus. Trade ed., \$11.95; text ed., \$8.95.

Sources of Information on the Rubber, Plastics and Allied Industries. E. R. Yescombe. Pergamon, New York, 1968. xii + 253 pp. \$10. International Series of Monographs in Library and Information Science, vol. 7.

**Spare-Part Surgery.** The Surgical Practice of the Future. Donald Longmore. Edited and illustrated by M. Ross-Macdonald. Doubleday, Garden City, New York, 1968. viii + 192 pp., illus. \$5.95. Doubleday Science Series.

Streptococcal and Staphylococcal Infections. Report of a WHO Expert Committee, Geneva, Nov. 1967. World Health Organization, Geneva, 1968 (distributed in the U.S. by Columbia University Press, New York). iv + 56 pp. Paper, 60¢. World Health Organization Technical Report Series, No. 394.

**Textbook of Virology.** For Students and Practitioners of Medicine and the Other Health Sciences. A. J. Rhodes and C. E. van Rooyen. Williams and Wilkins, Baltimore, ed. 5, 1968. xxviii + 966 pp., illus. \$33.50.

The Theory of Rotating Fluids. H. P. Greenspan. Cambridge University Press, New York, 1968. xii + 327 pp., illus. \$15. Cambridge Monographs on Mechanics and Applied Mathematics.

**Topics in Intermediate Statistical Methods.** Vol. 1. T. A. Bancroft. Iowa State University Press, Ames, 1968. xiv + 129 pp. \$5.90.

**Transition Metal Chemistry.** A Series of Advances. Vol. 4. Richard L. Carlin, Ed. Dekker, New York, 1968. x + 355 pp., illus. \$16.75.

User's Manual for the General Inquirer. Philip J. Stone and Cambridge Computer Associates. John Kirsch, technical editor. M.I.T. Press, Cambridge, Mass., 1968. xxiv + 258 pp., illus. Paper, \$6.95.

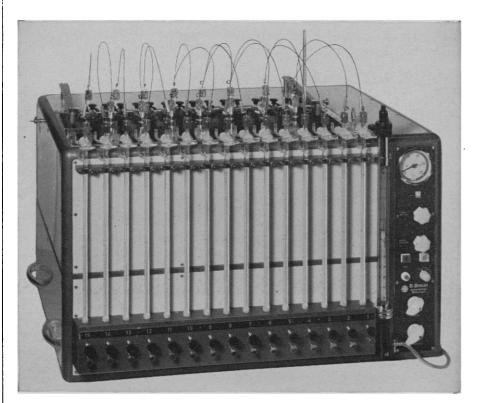
War and Peace in the Global Village. An Inventory of Some of the Current Spastic Situations that could be Eliminated by more Feed-forward. Marshall McLuhan and Quentin Fiore. Co-ordinated by Jerome Agel. McGraw-Hill, New York, 1968. v + 192 pp., illus. Cloth, \$5.95; paper, \$1.95.

Women in Medicine. Carol Lopate. Published for the Josiah Macy, Jr., Foundation by Johns Hopkins Press, Baltimore, 1968. xx + 204 pp. \$5.95.

The Year Book of the National Institute of Sciences of India, 1968. National Institute of Sciences of India, New Delhi, 1968. xiv + 290 pp. 15 rupees.

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