

descriptions of timber. The poor photographs, typographical errors, and taxonomic mistakes are still present.

The text consists of an introduction describing the growth and anatomy of the wood, the nomenclature applied to trees, and a glossary of terms used in gross descriptions of timber. Following are 244 alphabetically arranged descriptions of timbers, all seemingly culled from personal communications and outdated literature, if the bibliography can be taken as an indication.

Among the anomalies are descriptions of the same species of timber under two different common names in different portions of the volume; for example, the timber of *Hymenea courbaril* is discussed as both courbaril and West Indian locust, and that of *Pinus sylvestris* as both Scot's pine and Baltic redwood. The timbers of *Larix americana* and *Larix laricina* are mentioned separately, although the two names are synonymous. As before, treatments of timbers are uneven, and information given for some species is not given for others.

WILLIAM L. STERN
1907 Lyttonsville Road,
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Cosmic Radiation

Volumes of proceedings are usually not noted for their readability. In this respect the **Proceedings of the Ninth International Conference on Cosmic Rays** (Institute of Physics and the Physical Society, London, 1966. 2 vols. 1149 pp., illus. £10 10s.) is not much different from most conference proceedings. However, unlike most, it is not already outdated at publication, and it is also very well edited. Probably because the conference was well attended by most of the leading scientists in the field, the proceedings represent very well the status of our knowledge about the cosmic radiation.

The first volume includes all the papers dealing with the spectral and isotopic composition and the geophysical effects of the particles. There are also 18 more or less theoretical papers on the acceleration of cosmic rays and the relationships between the charged component, both nuclear and electronic, and the electromagnetic component. There are not yet enough experimental data to aid (or limit) theoretical astrophysicists in their choice of acceleration models. Fifty-five papers in the

volume deal with the modulation of the intensity of the primary particles. On this question there is a growing body of good data which already has led to some insight into the mechanisms that cause the variations in the intensities of the cosmic radiation.

The first section of volume 1 consists of 12 generally very good invited papers by leading workers in the field covering such topics as magnetic fields in interplanetary space, modulation, origin of cosmic rays, and x-ray and gamma-ray astronomy. These papers would be extremely useful to students. They are, in general, well indexed. In addition, there are three rapporteur papers summarizing modulation, spectral composition, and magnetospheric phenomena.

Volume 2 deals with extensive air showers, high-energy interactions, and muons and neutrinos. Two invited papers summarize these fields, and three rapporteur papers summarize the conference reports on these topics.

Some of the most interesting papers on extensive air showers were those reporting new techniques for learning about primary particles of very great energy. Several of these papers deal with the detection of extensive air showers by radio techniques. Cores of extensive air showers are being studied with a neon hodoscope by a group at Kiel. It is hoped that a large air shower can be detected by its scintillation in the atmosphere. Several experiments using larger arrays of various detectors to extend measurements to higher energies were described.

Progress in the study of high energy physics with cosmic ray particles has been slow. Many new data are presented in the papers, but most of the data are difficult to interpret.

Two papers reported results of cosmic ray neutrino experiments performed in the Kolar Gold Field in India and in a South African gold mine. Both gave preliminary data of poor statistical weight.

The amount of material in these encyclopedic volumes is overwhelming; there is no doubt that they should be on the shelves of all cosmic ray physicists and in the libraries of physics departments doing research in any of these fields. They provide an excellent summary of the efforts of scientists on planet Earth to study the phenomena called cosmic rays.

PHYLLIS S. FREIER
*School of Physics and Astronomy,
University of Minnesota, Minneapolis*

New Books

Economics and Social Sciences

The Economics of Poverty. Alan B. Batchelder. Wiley, New York, 1966. 232 pp. Illus. \$4.95. Introduction to Economics Series.

The Educated Society. Daniel Jenkins. Faber and Faber, London, 1966. 256 pp. 28s.

Experimental Foundations of Rorschach's Test. Ernest G. Schachtel. Basic Books, New York, 1966. 352 pp. \$7.95.

Field Guide for a Study of Socialization. John W. M. Whiting *et al.* Wiley, New York, 1966. 192 pp. Illus. Paper, \$2.95. Six Cultures Series, vol. 1.

The Genesis of Language: A Psycholinguistic Approach. Proceedings of a conference on "Language Development in Children" (Old Point Comfort, Va.), April 1965. Sponsored by the Human Communication Program, National Institute of Child Health and Human Development. Frank Smith and George A. Miller, Eds. M.I.T. Press, Cambridge, Mass., 1966. 414 pp. Illus. \$10. There are 14 papers.

International Aid. A discussion of the flow of public resources from rich to poor countries. I. M. D. Little and J. M. Clifford. Allen and Unwin, London, 1965; Aldine, Chicago, 1966. 302 pp. \$7.50.

Invention and Economic Growth. Jacob Schmookler. Harvard Univ. Press, Cambridge, Mass., 1966. 350 pp. Illus. \$9.95.

Psychology in Community Settings: Clinical, Educational, Vocational, Social Aspects. Seymour B. Sarason, Murray Levine, I. Ira Goldenberg, Dennis L. Cherlin, and Edward M. Bennett. Wiley, New York, 1966. 726 pp. \$12.95.

The Savage Mind. Claude Lévi-Strauss. Translated from the French edition (Paris, 1962). Univ. of Chicago Press, Chicago, 1966. 302 pp. Illus. \$5.95. The Nature of Human Society Series.

The Searchers: Conflict and Communism in an Italian Town. Belden Paulson and Athos Ricci. Translated from the Italian by Lisa Paulson. Quadrangle Books, Chicago, 1966. 380 pp. \$6.95.

Self-Evaluation: Concepts and Studies. James C. Diggory. Wiley, New York, 1966. 491 pp. Illus. \$9.95.

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Social Indicators. Raymond A. Bauer, Ed. M.I.T. Press, Cambridge, Mass., 1966. 379 pp. Illus. \$10. Technology, Space, and Society Series. Five papers.

Social Problems: A Modern Approach. Howard S. Becker, Ed. Wiley, New York, 1966. 780 pp. \$8.95. There are 14 papers.

Studies in Social Change. Amitai Etzioni. Holt, Rinehart, and Winston, New York, 1966. 240 pp. Paper, \$3.95.

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(Continued on page 930)

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Classical and Contagious Discrete Distributions. Proceedings of the International Symposium (Montreal, Canada), August 1963. Supported by Canadian Mathematical Congress, McGill University, and National Research Council of Canada. Ganapati P. Patil, Ed. Pergamon, New York, 1966. 566 pp. Illus. \$21. There are 37 papers.

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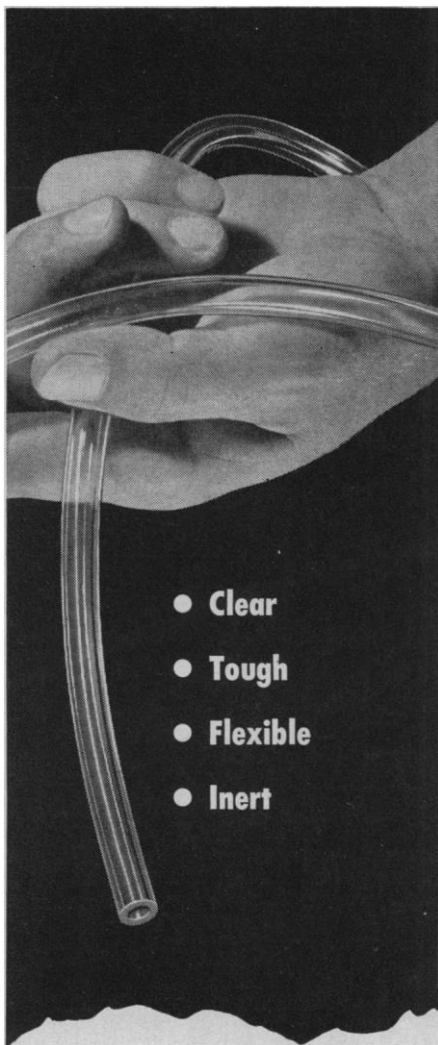
Frege's Logical Theory. Robert Sternfeld. Southern Illinois Univ. Press, Carbondale, 1966. 214 pp. \$8.50.

Fundamental Phenomena in the Materials Sciences. vol. 3, *Surface Phenomena*. Proceedings of the Third Symposium (Boston), January 1965. L. J. Bonis, P. L. de Bruyn, and J. J. Duga, Eds. Plenum Press, New York, 1966. 240 pp. Illus. \$12.50. Ten papers.

Handbook of Mechanical Specifications for Buildings and Plants. A checklist for engineers and architects. Robert Henderson Emerick. McGraw-Hill, New York, 1966. 496 pp. Illus. \$12.50.

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Lectures on Riemann Surfaces. R. C. Gunning. Princeton Univ. Press, Princeton, N.J., 1966. 258 pp. Illus. Paper, \$3.75.

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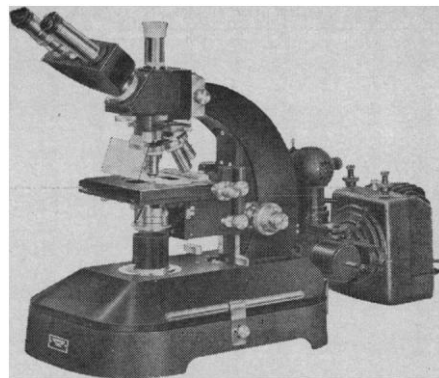
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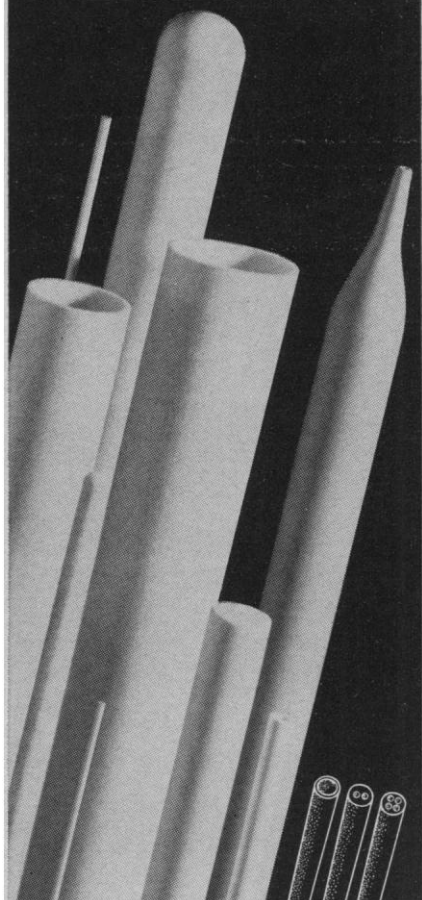
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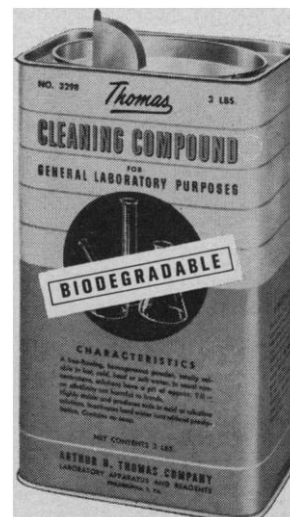
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Agricultural Physics. C. W. Rose. Pergamon, New York, 1966. 242 pp. Illus. Paper, \$3.50. Commonwealth and International Library of Science.

The Alcoholic Personality: A Clinical Study. Veikko Tähkä. Finnish Foundation for Alcohol Studies, Helsinki; Rutgers Center of Alcohol Studies, New Brunswick, N.J., 1966. 279 pp. \$6.

Allergy and Anaphylaxis as Metabolic Error. vols. 1 and 2. vol. 1, *Dual Response to Antigenic Stimulation* (468 pp.); vol. 2, *Anabolic Hormones in Immuno-metabolic Therapy* (746 pp.). Z. Z. Godlowski. Immuno-metabolic Press, Chicago, 1966. Illus. \$17 per volume; \$30 set.

American Handbook of Psychiatry. vol. 3. Silvano Arieti, Ed. Basic Books, New York, 1966. 794 pp. Illus. \$20.

Anatomy of the Cell. Björn Afzelius. Translated from the Swedish edition (Stockholm, 1964) by Birgit Satir. Univ. of Chicago Press, Chicago, 1966. 133 pp. Illus. \$5.50.

Anatomy of the Human Body. Henry Gray. Charles Mayo Goss, Ed. Lea and Febiger, Philadelphia, ed. 28, 1966. 1464 pp. Illus. \$22.50.

Animal Ecology in Tropical Africa. D. F. Owen. Freeman, San Francisco, 1966. 130 pp. Illus. \$5. Tropical Biology Texts.

Animal Gametes (Male): A Morphological and Cytochemical Account of Spermatogenesis. Vishwa Nath. Asia Publishing House, New York, 1966. 352 pp. Illus. \$13.50.

Antibiotics and Chemotherapeutic Agents in Clinical and Laboratory Practice. Victor Lorian. Thomas, Springfield, Ill., 1966. 349 pp. Illus. \$15.50.

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Biological Treatment of Mental Illness. Proceedings of the Second International Conference of the Manfred Sakel Foundation (New York), October–November 1962. Max Rinkel, Ed. Page (Farrar, Straus and Giroux), New York, 1966. 1051 pp. Illus. \$25. There are 65 papers.

Biology of the Laboratory Mouse. Earl L. Green, Ed. McGraw-Hill, New York, ed. 2, 1966. 718 pp. Illus. \$16.50.

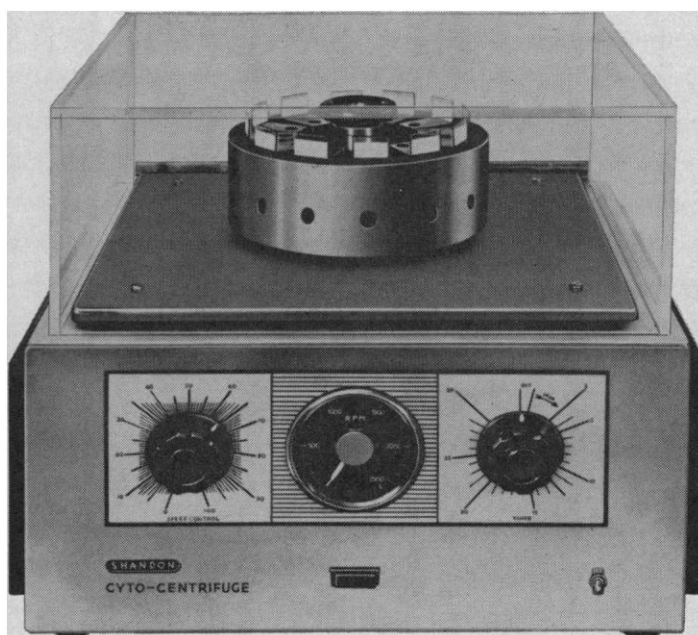
Brain Tissue Electrolytes. A. Van Harreveld. Butterworth, Washington, D.C., 1966. 183 pp. Illus. \$7.95.

Centennial of Entomology in Canada 1863–1963. A tribute to Edmund M. Walker. Glenn B. Wiggins, Ed. Univ. of Toronto Press, Toronto, Canada, 1966. 104 pp. Illus. \$5. Eight papers.

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The Development of Zonal Centrifuges and Ancillary Systems for Tissue Fractionation and Analysis. Norman G. Anderson, Ed. U.S. Department of Health, Education, and Welfare, Washington, D.C., 1966 (order from Superintendent of Documents, Washington, D.C.). 536 pp. Illus. \$4.75.

Diseases of the Cat. G. T. Wilkinson. Pergamon, New York, 1966. 378 pp. Illus. \$9.50. Contributions by P. P. Scott and E. Cotchin.

Ecological Methods: With Particular Reference to the Study of Insect Populations. T. R. E. Southwood. Methuen, London; Barnes and Noble, New York, 1966. 409 pp. Illus. \$13.50.

Environmental Influences on Reproductive Processes. Seventh Biennial Symposium on Animal Reproduction (East Lansing, Mich.), July 1965. William Hansel and R. H. Dutt. American Society of Animal Science, Albany, N.Y., 1966. 147 pp. Illus. Paper, \$5. Suppl. to *Journal of Animal Science*, vol. 25. Nine papers.

Flavins and Flavoproteins. E. C. Slater, Ed. Elsevier, New York, 1966. 561 pp. Illus. \$27. B.B.A. Library, vol. 8. There are 27 papers given at a symposium (Tripenhuis, Netherlands), June 1965.

Flavor Chemistry. A symposium (Detroit, Mich.), April 1965. Sponsored by the Division of Agricultural and Food Chemistry, American Chemical Society. Irwin Hornstein, symposium chairman. American Chemical Soc., Washington, D.C., 1966. 288 pp. Illus. \$8. *Advances in Chemistry Series*, vol. 56. There are 15 papers.

Food Values of Portions Commonly Used. Anna Bowes and Charles F. Church. Revised by Charles Frederick Church and Helen Nichols Church. Lippincott, Philadelphia, ed. 10, 1966. 160 pp. Paper, \$4.50.

The Galápagos. Proceedings of the symposia of the Galápagos International Scientific Project, 1964. Robert I. Bowman, Ed. Univ. of California Press, Berkeley, 1966. 336 pp. Illus. \$10. There are 40 papers.

General Biology. Andrew Stauffer, Ed. Van Nostrand, Princeton, N.J., ed. 2, 1966. 556 pp. Illus. \$9.75.

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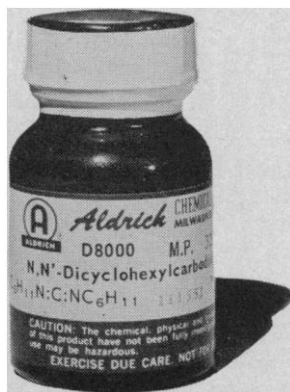
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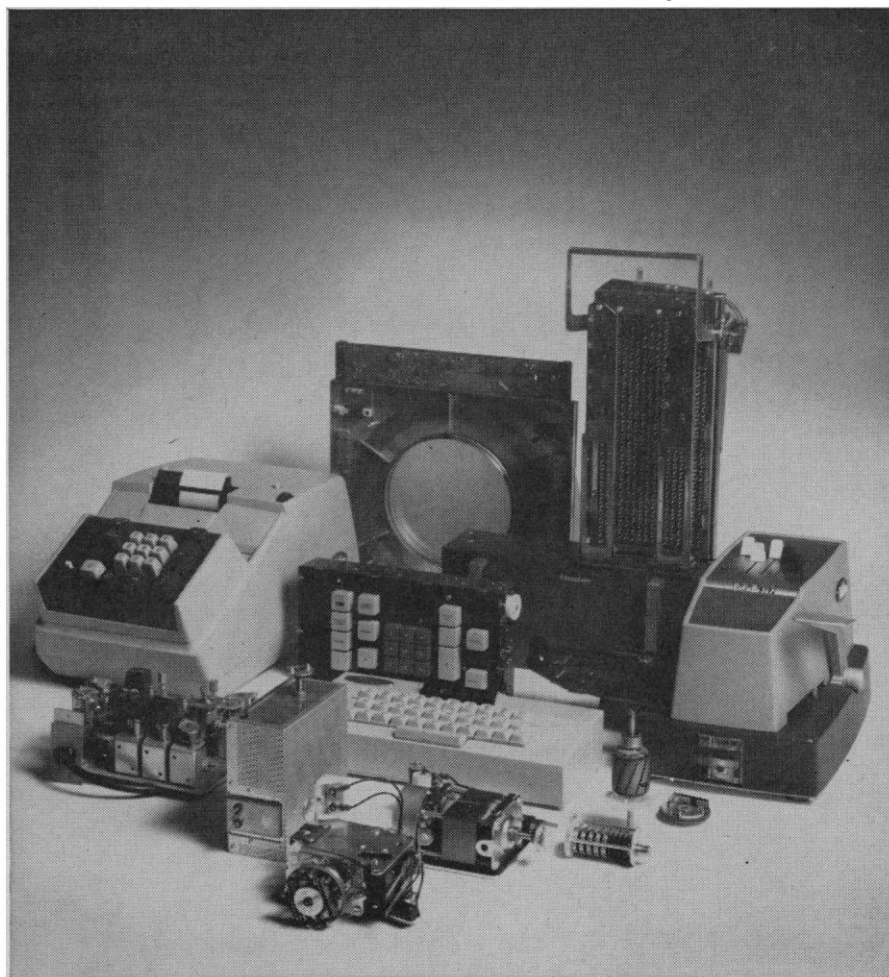
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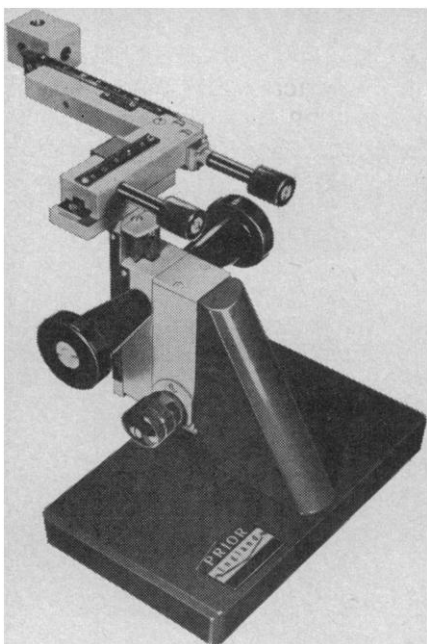
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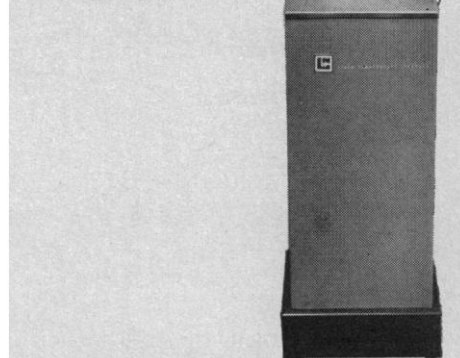
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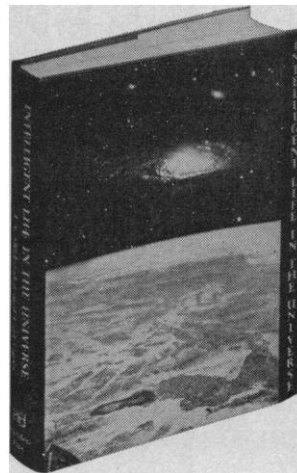
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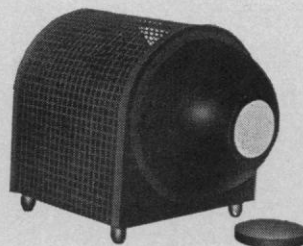


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