

cide for himself whether the brain is the inexorable seat of the soul.)

Most of the inadequacies are found in the German as well as the English version. For example, the author states, "So we perceive the sensation known as 'black' when no light impinges on our eyes" (page 86). It has long been known that black is perceived only through contrast, either spatial or temporal, between more and less brightly illuminated areas. Thus, some illumination is required if black is to be perceived. To give one more example, the author states that it has never been scientifically explained how people can detect obstacles in the dark without physical contact (page 125). Several experimenters have demonstrated that hearing plays the largest part in such performance; thus human beings have some of the ability of the echolocating bats which von Budenbrock has described a little earlier (page 103).

A useful index has been added in the translation, but there are neither references nor suggestions for further reading.

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**Inorganic Syntheses.** vol. V. Therald Moeller, Ed. McGraw-Hill, New York, 1957. xiv + 265 pp. Illus. \$6.

*Inorganic Syntheses*, volume 5, is a worthy addition to this useful series. It contains 63 numbered syntheses, many of them representing several compounds. Four volumes have now appeared since the war, at intervals of from 3 to 4 years, reflecting the continued activity in inorganic chemistry.

The contents reflect current research interests. There are, for example, preparations of several carbonyls and of carrier-free  $I^{131}$ . Rare-earth chemistry is well represented. A number of broadly useful reagents are found, including  $N_2O_4$ ,  $HOCl$ ,  $Co_2(SO_4)_3 \cdot 18H_2O$ , and  $BeCl_2$ . Some procedures are merely improvements on older ones. There also is a review of polyhalogen complex salts, followed by several preparations.

The subject index and the formula index include complete entries to all volumes in the series. The content of each volume is random because each procedure is volunteered more or less independently of the others, but the cumulative effect leads to comprehensive coverage. For example, four binary phosphorus halides are listed, but not more than two in any one volume. The formula index now contains upwards of 600 compounds, so that the series is approaching the more encyclopedic handbooks published in Germany a number of years ago.

The checking procedure continues to be a valuable feature. The checkers are always independent of the original contributors, their names are published, and frequently their suggestions for improvements are mentioned.

I noted very few obvious errors in reading the text. It is unlikely that serious chemical errors occur, simply because so many hands have been on each procedure. The format seems overly conservative, but it conforms with that of previous volumes and is useful.

This book is highly recommended to any who have need of dependable procedures for preparing inorganic compounds.

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### Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or agency sponsoring the publication.)

*Meteorological Utilization of Images of the Earth's Surface Transmitted from a Satellite Vehicle.* ASTIA-AD-146764. Arnold H. Glaser. 145 pp. *Particle Size Distribution in Rain and Snow Inferred from Z-R Relations.* Meteorol. Radar Studies No. 7. ASTIA-AD-146765. Raymond Wexler. 8 pp. *A System for Recording Eight Meteorological Elements Simultaneously on Moving Film (Weatherlog).* AFCRC-TN-58-227. G. K. Thompson. Meteorol. Radar Studies No. 8. 59 pp. *Vertical Structure of Continuous Streamer-form Precipitation.* AFCRC-TN-58-401. Meteorol. Radar Studies No. 10. Raymond Wexler and David Atlas. Blue Hill Meteorological Observatory, Milton 86, Mass., 1958. 38 pp.

*Study of Synoptic-dynamic Influences on the Nature of Cloud and Precipitation Echoes, October 1953-February 1958.* AFCRC-TR-58244. Meteorol. Radar Studies, Final Report. 36 pp. Blue Hill Meteorological Observatory, Harvard Univ., Milton 86, Mass., 1958.

*Anthropology as a Career.* William C. Sturtevant. 18 pp. *Mississippian Fauna in Northwestern Sonora Mexico.* Misc. Collections, vol. 119, No. 3. W. H. Easton, John E. Sanders, J. Brookes Knight, Arthur K. Miller. 96 pp. *New American Paleozoic Echinoids.* Misc. Collections, vol. 135, No. 9. Porter M. Kier, 26 pp. *A Review of the Copepod Genus Ridgewayia (Calanoida) with Descriptions of New Species from the Dry Tortugas, Florida.* Proceedings of the U.S. National Museum, vol. 108. Mildred Stratton Wilson. 42 pp. *The Statistics of Meteors in the Earth's Atmosphere.* Contribs. to Astrophysics, vol. 2, No. 11. Gerald S. Hawkins and Richard B. Southworth. 16 pp. Smithsonian Institution, Washington, 1958.

*The Descent of Satellite 1957 Beta One.* Spec. Rept. No. 15. Optical Satellite Tracking Program. 13 pp. *Position of Satellite 1957 Beta One During the First 100 Revolutions.* Spec. Rept. No. 16. 22

pp. *Reports and Analyses of Satellite Observations.* Spec. Rept. No. 14. 43 pp. Smithsonian Institution, Astrophysical Observatory, Cambridge, Mass., 1958.

*The Self-Glazing Phenomenon Associated with Shales and Clays Containing Small Amounts of Soluble Salts.* Bull. No. 65. James T. Tanner. 21 pp. \$1. *A Tensile Impact Test for Plastics.* Bull. No. 67. P. H. McDonald, Jr., and J. A. Edwards, 17 pp. \$1. Dept. of Engineering Research, North Carolina State College, Raleigh, 1958.

*Admission Requirements of American Medical Colleges, Including Canada, 1958-59.* Compiled by Helen Hofer Gee and E. Shepley Nourse. Assoc. of American Medical Colleges, Evanston, Ill., 1958. 235 pp. \$2.

*Applied Mechanics in Engineering.* An inaugural lecture delivered at University College, London, 23 January 1958. R. E. D. Bishop. Lewis, London, 1958. 24 pp. 2s. 6d.

*Atomic Energy Commission, Twenty-fourth Semiannual Report.* U.S. Atomic Energy Commission, Washington 25, 1958. 410 pp.

*The Advancement of Medical Research and Education Through the Department of Health, Education, and Welfare.* Final report of the Secretary's consultants on medical research and education. Office of the Secretary, Department of Health, Education, and Welfare, Washington, 1958. 82 pp.

*A Bibliography of Avian Mycosis* (partially annotated). Misc. Publ. 631. H. L. Chute and D. C. O'Meara. Maine Agricultural Experiment Station and Lederle Laboratories, Orono, Maine, 1957. 44 pp.

*Bibliography of the Arabian Peninsula.* Eric Macro. Univ. of Miami Press, Coral Gables, Fla., 1958. 94 pp.

*Bibliography on Medical Electronics.* Prepared by Medical Electronics Center of the Rockefeller Institute. Professional Group on Medical Electronics, Inst. of Radio Engineers, New York, 1958. 91 pp. \$2.50.

*The Behavioral, Ecological and Morphological Characteristics of Two Populations of Alder Flycatcher, Empidonax traillii (Audubon).* Bull. No. 371. Robert Carrington Stein. New York State Museum and Science Service, Albany, 1958. 63 pp.

*The Butterflies of Mississippi.* Studies in Zoology, vol. 6, No. 2. Bryant Mather and Katharine Mather. Tulane Univ., New Orleans, La., 1958. \$1. 46 pp.

*Chloroplast Pigments and Chromatographic Analysis.* Thirty-second annual Priestley lectures. Harold H. Strain. Phi Lambda Upsilon and associated departments, Pennsylvania State Univ., University Park, 1958. 180 pp. \$2.50.

*Educators Guide to Free Slidefilms.* Mary Foley Horkheimer and John W. Diffor. ed. 10. 205 pp. \$6. *Elementary Teachers Guide to Free Curriculum Materials.* Patricia H. Suttles, Ed. ed. 15. 318 pp. \$6.50. Educators Progress Service, Randolph, Wis., 1958.

*Forest and Range Influences Publications, 1956-1957.* Personnel of the Forest Service. U.S. Dept. of Agriculture, Washington, 1958. 20 pp.