mentalist. In all his discussion of the wide variety of investigations he has taken care to emphasize the contribution to the research of advances in experimental technique. On almost every page there is a diagram of apparatus or data. These diagrams are clearly labeled and carefully discussed. A chronicle of the progress that has been made in the study of quantum liquids and solids would read like a history of cryogenic technology. The flavor of such a chronicle is found in this book. The emphasis is always on the physics of the properties of liquid and solid helium, however. In the early chapters those aspects of the theory which lead to a useful intuition about the behavior of the "excitations" in quantum liquids are well handled. The text is extensively referenced, showing the author's great and critical awareness of the vast literature in this research area.

Wilks's book supersedes all previous books on liquid or solid helium. It would be an excellent text for a lowtemperature physics course (lasting three or four semesters); it should certainly be on the bookshelf of every serious low-temperature physicist.

ROBERT A. GUYER

Department of Physics, Duke University, Durham, North Carolina

Biotoxicology

Animal Toxins. Papers presented at the first international symposium, Atlantic City, N.J., 1966. FINDLAY E. RUSSELL and PAUL R. SAUNDERS, Eds. Pergamon, New York, 1967. xiv + 428 pp., illus. \$18.50.

Participants will remember this meeting with pleasure as one that was well organized. Fewer than 100 people attended. The talks, almost all of which are presented in the volume under review, were given and attended by immunologists, chemists, taxonomists, physicians, anatomists, and physiologists. Almost half the participants came from foreign countries, their visits made possible by federal grants. Animal Toxins reflects the happy mixture of these different fields of endeavor. About 160 pages are devoted to invertebrate and about 230 to vertebrate toxins. Each paper is well edited and has a summary. The discussion and questions are not reproduced. The individual presentations vary in quality, but the overall standard is high. Included in the volume are the microphotographs of black-widow venom glands, by David S. Smith, showing that the secretion of the glandular epithelium leads to the disintegration of the cells, a finding that indicates a source of complexity of the venom. Unfortunately the publisher has placed legends and explanations of abbreviations in the plates several pages away from them. Of particular interest is the presentation by J. H. Barnes on Australian cubomedusae. The sting of Chironex fleckeri, only 18 by 18 by 24 centimeters, with 13 to 15 tentacles 1 meter long when partially contracted, can cause the death of a healthy adult in less than 3 minutes. Venom research on this difficult group of jellyfish has been made possible by new extraction methods. Washed human amnions salvaged from local hospitals are used because the nematocysts do not discharge on artificial membranes. R. Endean, with other Australian researchers, reported that only piscivorous conid snails cause serious injury to humans, directly paralyzing skeletal muscle; those conids that feed on mollusks and worms are not dangerous. The anatomy of Echinothrix sea urchin spines and their biologically active substance, probably noradrenaline, is described. There is a paper on the feared South American freshwater rays by M. N. Castex. H. Michl and collaborators, from Austria, describe the toxin of skin secretions of the European newts (Triturus) and unks (Bombina), which not only provide protection against predators but also keep the animal's skin moist and contain an antibiotic that prevents the growth of mold and microorganisms on its surface. There are, as befits any volume on toxins, numerous pages on snakes, again by specialists from various fields. The neurotoxic fractions of a number of venoms studied, including those of black widows and Centruroides scorpions, were found to be proteins of low molecular weight. An unfortunate omission from the subjects discussed is the biological implications of the evolution of venoms in various animals. What are the selective factors responsible? Of what importance are the poisons to the animals? Despite this shortcoming, the general biologist will find valuable information in this book; it will be essential to those working with venoms.

HERBERT W. LEVI Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts

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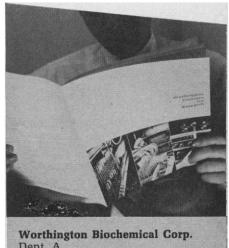


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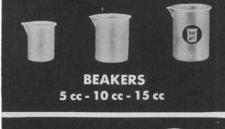
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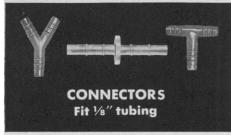
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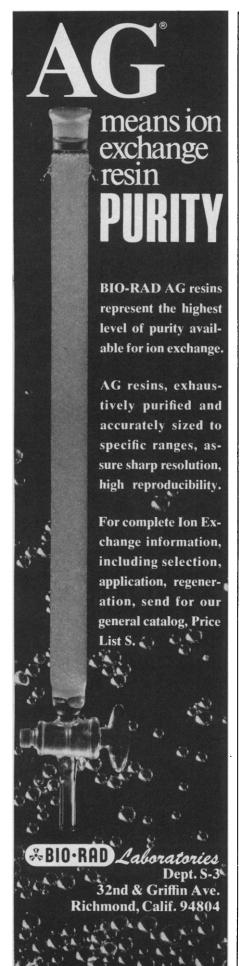
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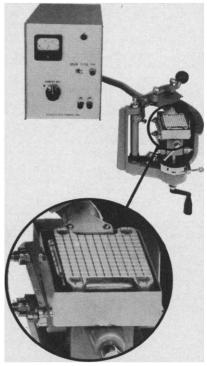
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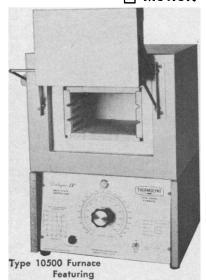
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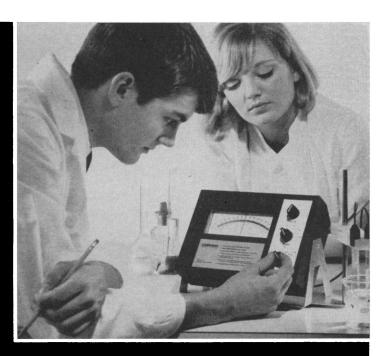
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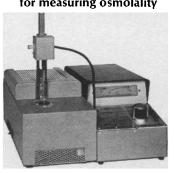
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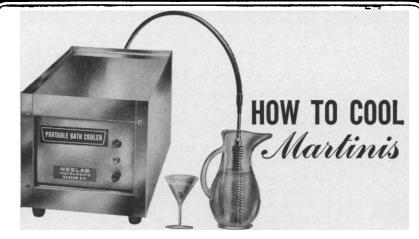
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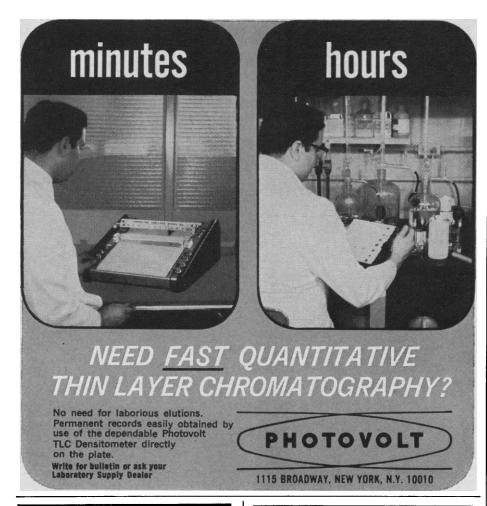
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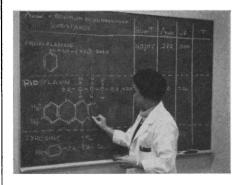
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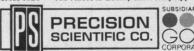


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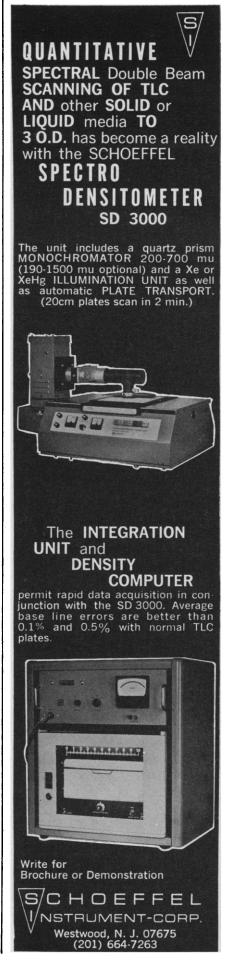
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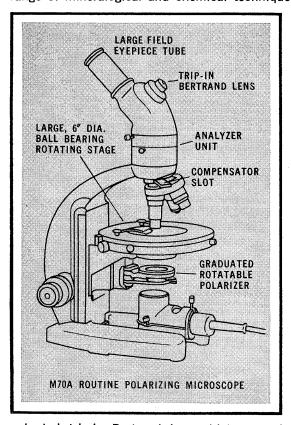
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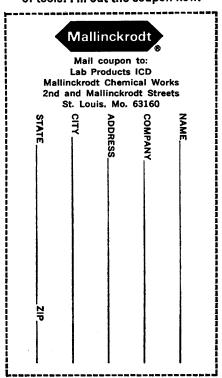
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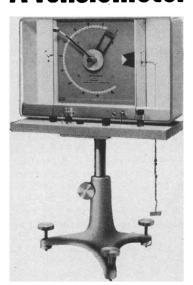
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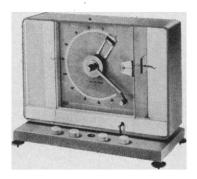
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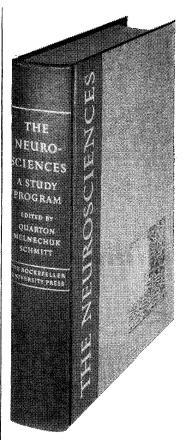
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