sections 2.6 and 2.7). I feel that the book will give readers the insight they need to profit from the study of more advanced books on the applications referred to in the text.

The first four chapters contain basic definitions from group theory and linear algebra and full descriptions from a geometrical point of view of the structure and representations of the finite symmetry groups of crystallography. Chapter 5 contains a general survey of the representation theory of finite groups. The first application is the group-theoretical study of quadratic forms, illustrated by problems involving crystals and molecular vibrations. The author then considers the classification by symmetry considerations of the solutions of eigenvalue problems, of special importance in quantum mechanics. The book concludes with an introduction to tensor fields.

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Note

Science for the Layman

In his book, **Introducing Science** (Basic Books, New York, 1964. 244 pp. $4.95), Alan Isaacs—"A highly successful teacher of elementary science," according to the book jacket, and a graduate of the Imperial College of Science and Technology—attempts to provide much: a nonmathematical survey of physics, chemistry, biochemistry, and creation. In short, again quoting from the jacket, "a genuine service to the reader eager to know what modern science is all about."

His organization, his descriptions, and his depth within a brief span are commendable. I find the book dull, however. It needs to be enlivened by colorful cases or examples or anecdotes. Almost every page is overloaded with apologetic transition—"Having briefly discussed . . . we are now able to proceed to. . . ." "It is now necessary to distinguish between. . . ." "Before investigating . . . we must say something about. . . ." "We have so far described. . . ." "As we have seen. . . ." "It is hoped that this short description. . . ." "No survey would be complete without. . . ."

I have a feeling that this is really a series of lectures which, enlivened by the personality of the living teacher, could make very acceptable listening. As reading, the recent standard setter in the same field remains (in my limited reviewing) Victor F. Weisskopf's *Knowledge and Wonder: The Natural World as Man Knows It* [reviewed in *Science* **140**, 626 (1963)].

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New Books

Biological and Medical Sciences

Intravenous Feeding. A colloquium (London), May 1962. A. Wretlind, Ed. Karger, Basel, Switzerland, 1964 (order from Phiebig, White Plains, N.Y.). 137 pp. Illus. Paper, $7.75.

An Introduction to Animal Biology. Dale C. Braungart and Rita Buddeke. Mosby, St. Louis, ed. 6, 1964. 442 pp. Illus. $7.25.

Introduction to Psychiatry. O. Spurgeon English and Stuart M. Finch. Norton, New York, ed. 3, 1964. 670 pp. $7.95.

Leukopoiesis in Health and Disease. Harold E. Whipple, Ed. New York Acad. of Sciences, New York, 1964. 581 pp. Illus. Paper, $8. Some 40 papers presented at a conference held by the Academy on 9–11 May 1963. The volume is published as volume 113 (art. 2) of the Academy's *Annals.*

Lipid Pharmacology. Rodolfo Paoletti, Ed. Academic Press, New York, 1964. 552 pp. Illus. $17.50.

Mechanisms Concerned with Conception. Proceedings of a symposium (West Point, N.Y.), July 1959. Carl G. Hartman, Ed. Pergamon, London; Macmillan, New York, 1963. 544 pp. Illus.

Meristems and Differentiation. Report of a symposium held in June 1963. Jerome P. Miksche, Ed. Brookhaven National Laboratory, Upton, N.Y., 1964 (order from Office of Technical Services, Washington, D.C.). 258 pp. Illus. Paper, $2.50.

Méthodes Expérimentales d'Etude du Vaccin BCG. Resultats d'une expérience interlaboratoire (1958–1961). Round Table discussion (Montreal, Canada), September 1961. Maurice Panisset and Monique Huot, Eds. Université de Montreal, Canada, 1963. Illus. Paper.

Methods in Carbohydrate Chemistry. vol. 4, *Starch.* Roy L. Whistler, Robert J. Smith, James N. BeMiller, and M. L. Wolfrom, Eds. Academic Press, New York, 1964. 351 pp. Illus. $13.50.

Microbial Behaviour, "in Vivo" and "in Vitro." A symposium (London), April 1964. H. Smith and Joan Taylor, Eds. Cambridge Univ. Press, New York, 1964. 306 pp. Illus. $8.

Microbiological Quality of Foods. Proceedings of a conference (Franconia, N.H.), August 1962. L. W. Slanetz, C. O. Chichester, A. R. Gaufin, and Z. J. Ordal, Eds. Academic Press, New York, 1963. 298 pp. Illus. $9.

Mineral Metabolism. An advanced treatise. vol. 2, pt. A, *The Elements.* C. L. Comar and Felix Bronner, Eds. Academic Press, New York, 1964. 663 pp. Illus. $22.

Molluscs. J. E. Morton. Hutchinson Univ. Library, London; Hillary House, New York, ed. 2, 1963. 232 pp. Illus. $3.

The Monosaccharides. Jaroslav Staněk, Miloslav Cerny, Jan Kocourek, and Josef Pacák. Academic Press, New York; Czechoslovak Acad. of Sciences Publishing House, Prague, 1963. 1006 pp. Illus. $32.

Morphological and Biochemical Correlates of Neural Activity. Maynard M. Cohen and Ray S. Snider, Eds. Harper and Row, New York, 1964. 256 pp. Illus. $8.50.

Non-Glycolytic Pathways of Metabolism of Glucose. Siegfried Hollmann. Translated from the German edition (Stuttgart, 1961) and revised by Oscar Touster. Academic Press, New York, 1964. 286 pp. Illus. $12.

Les Nucléases. Application à l'étude des acides nucléiques. Michel Privat de Garilhe. Hermann, Paris, 1964. 281 pp. Illus. Paper, F. 36.

Les Oiseaux du Nord de l'Afrique. De la Mer Rouge aux Canaries. R. D. Etchécopar and François Hüe. Boubee, Paris, 1964. 606 pp. Illus. F. 120.

Oral Exfoliative Cytology. Veterans Administration Cooperative Study, 1962. Veterans Administration, Washington, D.C., 1963 (order from GPO, Washington, D.C.). 98 pp. Illus. $2.25.

Osmotic and Ionic Regulation in Animals. W. T. W. Potts and Gwyneth Parry. Pergamon, London; Macmillan, New York, 1964. 437 pp. Illus. $9.

Parasitology. The biology of animal parasites. Elmer R. Noble and Glenn A. Noble. Lea and Febiger, Philadelphia, ed. 2, 1964. 724 pp. Illus. $11.

Patterns in the Balance of Nature. And related problems in quantitative ecology. C. B. Williams. Academic Press, New York, 1964. 332 pp. Illus. $9.50.

Peptides. Proceedings of the Fifth European Symposium (Oxford, England), September 1962. G. T. Young, Ed. Pergamon, London; Macmillan, New York, 1963. 283 pp. Illus. $12.50.

A Photographic Atlas of Shark Anatomy. The gross morphology of *Squalus acanthias.* Carl Gans and Thomas S. Parsons. Academic Press, New York, 1964. 110 pp. Plates. Paper, $3.95.

Photophysiology. vols. 1 and 2. vol. 1, *General Principles; Action of Light on Plants* (391 pp. $14); vol. 2, *Action of Light on Animals and Microorganisms; Photobiochemical Mechanisms; Bioluminescence* (455 pp. $15). Arthur C. Giese, Ed. Academic Press, New York, 1964. Illus.

Primitive Motile Systems in Cell Biology. Proceedings of a symposium (Princeton, N.J.), April 1963. Robert D. Allen and Noburo Kamiya, Eds. Academic Press, New York, 1964. 662 pp. Illus. $22.

Principles of Modern Biology. Douglas Marsland. Holt, Rinehart, and Winston, New York, ed. 4, 1964. 731 pp. Illus. $7.50.