

numerous diagrams appear in the text, there are but five electron micrographs—one of carbon particles and four of a small hole, which illustrate lens astigmatism.

The chapter headings appear as follows: "I. Introduction, II. Historical review, III. Basic theory of electron microscopy, IV. The electron microscope, Literature cited, Appendices A through J, References, Author index, and Subject index." This is a most unusual, almost bizarre, arrangement.

The numerous appendices are used as a catch-all for odds-and-ends and for somewhat more detailed accounts of points raised in the other chapters. The references and literature cited are comprehensive, useful, and primarily of the review type.

The content of the book is, for the most part, sound, although the treatment is disorganized and the style abbreviated. This impression is reinforced by the location of the appendices, whose contents would, perhaps, be better placed within the appropriate chapters. In addition, some of the material is comprehensible only to those with an intimate knowledge of the operation of the electron microscope, while other parts of the discussion are (hopefully) directed toward the complete novice. This continual change in approach adds to the unevenness caused by the style.

Because the book is neither a practical handbook nor a reference text, its exact purpose is not altogether clear to me; it is, in part, too complex for laymen but too brief and simplified for serious microscopists. However, the beginning student of electron microscopy will find it useful, for, despite its lack of organization, the material which it presents is accurate and adequately selected.

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## Notes

### Ornithology

**Birds of the Caribbean** (Viking, New York, 1962. 255 pp. \$15) is another of the attractive, full-sized (8¼ by 11¼ inches), recent books on birds, which appeal to the eyes and pocketbooks of bird lovers. The book, which the publisher calls a "studio book," makes easy reading, even for untrained bird watchers, and

the photographs, in natural color, add much appeal. The author, Robert Porter Allen, formerly research director of the National Audubon Society, has had considerable experience with the birds of the Caribbean area, and he writes with ease and conviction or quotes from the writings of others in a pleasant style.

The first section of the book (pp. 1–17) is of a general nature; the second (pp. 17–206) is devoted to life histories of the species treated; the third (pp. 206–242), an "Identification guide," gives the names, description, and range of each species. The fourth section is an alphabetical list of the photographers that shows the plates for which each photographer is responsible. Incidentally, if the reader is interested in knowing where, or by whom, any of the pictures were taken, he may have to read this section from end to end to obtain the answer, for no explanation accompanies the color plates nor is there any other index to them, a rather unfortunate arrangement.

The considerable variation in the amount of photographic enlargement results in blocks of white paper which detract from the pictures. Some of the finest, which fortunately are enlarged to full-page size, are 30 beautiful photographs by Paul Schwartz. These are very effective. The blue-gray tanager on the dust jacket is one good example.

The arrangement of the plates and of the corresponding text follows that of the American Ornithologists' Union's *Check-list of North American Birds*, beginning with the white-tailed tropic bird and ending with the rufous-colored sparrow. The 98 species illustrated and discussed are well chosen among the several hundred that might have been selected from the birds of the West Indies, Central America, and northern South America, the region which, according to the attractive map on the end papers, can be called the "Caribbean and its Environs."

The book, which will certainly appeal to travelers in the area, was conceived by William C. White, former president of the Alcoa Steamship Company, as a companion for the popular *Flowering Trees of the Caribbean* and was completed despite the greatly reduced passenger revenue in the Caribbean area.

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## New Books

### General

**The ABC's of Astronomy.** An illustrated dictionary. Roy A. Gallant. Doubleday, Garden City, N.Y., 1962. 121 pp. Illus. \$3.95.

**The Art of Benin.** Philip J. C. Dark. Chicago Natural History Museum, Chicago, 1962. 77 pp. Illus. Plates. Paper, \$2.

**Biology for the Modern World.** C. H. Waddington. Barnes and Noble, New York, 1962. 131 pp. Illus. \$2.

**Chemistry for the Modern World.** George Porter. Barnes and Noble, New York, 1962. 127 pp. Illus. \$2.

**Educators Guide to Free Guidance Materials.** Mary Horkheimer Saterstrom and Joe A. Steph. Eds. Educators Progress Service, Randolph, Wis., 1962. 268 pp. Paper, \$6.50.

**The Excitement of Science.** John Rader Platt. Houghton Mifflin, Boston, 1962, 182 pp. Paper, \$1.50.

**The Heritage of Kitty Hawk.** Walter T. Bonney. Norton, New York, 1962. 211 pp. Illus. \$5.

**Ibamba.** Wynant Davis Hubbard. New York Graphic Society, Greenwich, Conn., 1962. 346 pp. \$6.95.

**Man's Discovery of His Past.** Literary landmarks in archeology. Robert F. Heizer, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1962. 189 pp. Illus. Paper, \$1.95; cloth, \$4.50.

**Philosophical Issues in Adult Education.** Horace M. Kallen. Thomas, Springfield, Ill., 1962. 112 pp. \$4.75.

**The Public Order of the Oceans.** A contemporary international law of the sea. Myres S. McDougal and William T. Burke. Yale Univ. Press, New Haven, Conn., 1962. 1251 pp. \$15.

**Reason and Chance in Scientific Discovery.** R. Taton. Translated by A. J. Pomerans. Science Editions, New York, 1962 (reprint). 171 pp. Illus. Paper, \$1.65.

**Science and Religion.** An interpretation of two communities. Harold K. Schilling. Scribner, New York, 1962. 286 pp. \$4.50.

**Southeast Asian History.** A bibliographic guide. Stephen N. Hay and Margaret H. Case. Praeger, New York, 1962. 150 pp.

**Structural Patterns and Proportions in Vergil's Aeneid.** A study in mathematical composition. George E. Duckworth. Univ. of Michigan Press, Ann Arbor, 1962. 277 pp. Illus. \$7.50.

**Studies of War.** Nuclear and conventional. P. M. S. Blackett. Hill and Wang, New York, 1962. 250 pp. Illus. \$3.95.

**The Supreme Court.** Palladium of freedom. Alpheus Thomas Mason. Univ. of Michigan Press, Ann Arbor, 1962. 207 pp. \$4.95.

**The Wealth of India.** vol. 6 (L–M), *Raw Materials.* A dictionary of Indian raw materials and industrial products. Council of Scientific and Industrial Research, New Delhi, 1962. 528 pp. Illus.

**Weather Forecasting as a Hobby.** Robert Wells. Hammond, Maplewood, N.J., 1962. 47 pp. Illus. \$1.

**The World of Leonardo da Vinci.** Man of science, engineer, and dreamer of flight. Ivor B. Hart. Viking Press, New York, 1962. 374 pp. Illus. \$7.95.