somewhat difficult to follow closely every article, since each specialist tends to write in the unique language of his field.

Several introductory chapters are devoted to physical chemistry: temperature effects on water, proteins, DNA, and lipids. The major portion of the volume then follows the phylogenetic tree from viruses to man. Final chapters concern thermobiology of the soil, polar regions, and medical applications. Most notable are the thorough and wellwritten chapters concerning microorganisms, insects, mammals, and polar regions. Most regrettable are the labored chapters on higher plants and invertebrates. The latter suffers from long, often incomprehensible sentences. The authors of the chapters on lipids, animal viruses, and soil biology are to be commended for their clarity and brev-

I noted only two major errors. In the chapter on microorganisms, the discussion of thermal inactivation curves (pp. 187–89) is incorrect. The author of the article concerning polar-region biology errs in relating maximum order with minimum information content (p. 580).

It is clear that the collection fulfills the stated aims of the editor, and the quality of the individual articles is good. Graduate students and faculty will find advantages in having access to this book, but it is difficult to imagine many individuals who will find interest in more than one-third of the articles.

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Crystallography

Crystal Growth. Proceedings of an international conference, Boston, Mass., June 1966, sponsored by the Air Force Cambridge Research Laboratories and the Solid State Commission of the International Union of Pure and Applied Physics. H. STEFFEN PEISER, Ed. Pergamon, New York, 1967. xx + 856 pp., illus. \$45. Also issued as Supplement No. 1, 1967, of Physics and Chemistry of Solids.

Most proceedings of conferences will be purchased almost entirely by libraries. They do not exhibit the systematic, progressive development of a textbook or give the detailed instruction of a manual or the comprehensive survey of a handbook. This generalization applies to the book under review. Having said that much, one must also say that students will find useful reviews and outlines of many portions of crystal-growth theory, experimentalists will find useful, specific details on many techniques, and research workers will make contact with many of the important directions and directors of crystal growth research within its covers. The distribution of the 136 papers among 11 subject categories (various growth techniques and aspects of the growth process and its results), plus the fourpage subject index and the index of authors (of these papers only, not of the cited references), will be of some help in the use of the book as a reference. Probably its greatest value, however, is as news of recent progress. The editor and the subject chairmen whose assistance he acknowledges deserve warm commendation for having published this high-quality volume less than eight months after the conference. The uniformity in the few noticeable points of British style, such as "colour centre," over all the papers by U.S. authors testifies to editorial care and firmness. Work done abroad is represented by a sizable minority of the papers, all in English except for one in German, two in French, and two in Russian

The volume is labeled a supplement to the journal Physics and Chemistry of Solids. According to the preface, this form of publication was chosen so that each paper could be given the full, prompt refereeing, editing, indexing, and abstracting accorded a journal publication. The collection is certainly far more useful than the alternative scatter of papers through a number of journal volumes. It probably contains more information of current interest to workers in the art and science of crystal growth than any other single volume. Both the artists and the scientists in this field should look it over carefully.

More international conferences on crystal growth will undoubtedly be held. It is to be hoped that they can be jointly sponsored by the IUPAP and the International Union of Crystallography, so that those interested in this field will not again be torn between two major meetings close in time and distant in space, as happened in 1966.

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Books Received

Action of Ionizing Radiation on Ion-Exchange Materials. E. V. Egorov and P. D. Novikov. Translated from the Russian edition (Moscow, 1965) by J. Schmorak. Israel Program for Scientific Translations, Jerusalem; Davey, New York, 1967. x + 251 pp., illus. \$16.50.

Advances in Experimental Social Psychology. Vol. 3. Leonard Berkowitz, Ed. Academic Press, New York, 1967. xiv + 333 pp., illus. \$10.50.

Advances in Pharmacology. Vol. 5. Silvio Garattini and Parkhurst A. Shore, Eds. Academic Press, New York, 1967. xvi + 318 pp., illus. \$15.

Agriculture and the Quality of Our Environment. A symposium presented at the 133rd meeting of the American Association for the Advancement of Science, Washington, D.C., December 1966. Nyle C. Brady, Ed. AAAS, Washington, D.C., 1967. xvi + 460 pp., illus. \$13.50; members of AAAS, \$11.50. AAAS Publication 85.

Algebraic Numbers. L. E. Dickson *et al.* Chelsea, New York, 1967. iv + 212 pp. \$4.95. Originally published as report of the Committee on Algebraic Numbers of the National Research Council, No. 28 (February 1923) and No. 62 (February 1928).

Annual Review of Phytopathology. Vol. 5. James G. Horsfall and Kenneth F. Baker, Eds. Annual Reviews, Palo Alto, Calif., 1967. x + 470 pp., illus. \$8.50.

Antioquia's Corridor to the Sea. An Historical Geography of the Settlement of Urabá. James J. Parsons. University of California Press, Berkeley, 1967. x + 132 pp., illus. Paper, \$4. Iber-Americana: 49

Appalachian Tectonics. Thomas H. Clark, Ed. University of Toronto Press in cooperation with the Royal Society of Canada, Toronto, 1967. x + 99 pp., illus. \$6.50. Royal Society of Canada Special Publications, No. 10.

Arztliche Massnahmen bei aussergewöhnlicher Strahlenbelastung. Informationstagung der Gesellschaft für Strahlenforschung m. b. H. und der Vereinigung Deutscher Strahlenschutzärzte e. V., Freiburg, October 1966. T. M. Fliedner and W. Hauger, Eds. Thieme, Stuttgart, 1967. viii + 143 pp., illus. Paper, \$4.95.

Atlas der klinischen Enzymologie. Einführung in die Beurteilung von Enzymbildern sowie Methoden und Arbeitsvorschriften. H. Weber and T. Wegmann. Thieme, Stuttgart, 1968. viii + 231 pp., illus. \$9.75.

A Biographical Directory of Librarians in the Field of Slavic and East European Studies. Compiled and edited by Peter A. Goy and Laurence H. Miller. American Library Association, Chicago, 1967. xvi + 80 pp. Paper, \$3.25.

The Code Breakers. The Story of Secret Writing. David Kahn. Weidenfeld and Nicolson, London, 1967. xvii + 1164 pp., illus. \$14.95.

The Cosmos of Arthur Holly Compton. Marjorie Johnston, Ed. Knopf, New York, 1967. xxii + 480 pp. \$10.

CRC Handbook of Laboratory Safety.

Norman V. Steere, Ed. Chemical Rubber (Continued on page 1166)